Factual explanation:

Passenger location: 0

Passenger destination: 1

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|R: | : :G|

| : | : : |

| : : : : |

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|Y| : |B: |

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Counterfactual explanation:

Passenger location: 4

Passenger destination: 1

State Path: 1, 1, 17, 37

Loss function value: 0.9

Action path: PICKUP, EAST

Statement: Given that in state 1 the agent chose PICKUP in what state would it chose SOUTH?   
In state 37 where the passanger location is now In Taxi:

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|R: | : :G|

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|Y| : |B: |

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Factual explanation:

Passenger location: 0

Passenger destination: 1

+---------+

|R: | : :G|

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| : : : : |

| | : | : |

|Y| : |B: |

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Counterfactual explanation:

Passenger location: 4

Passenger destination: 1

State Path: 1, 1, 17

Loss function value: 0.95

Action path: PICKUP

Statement: Given that in state 1 the agent chose PICKUP in what state would it chose EAST?   
In state 17 where the passanger location is now In Taxi:

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|R: | : :G|

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|Y| : |B: |

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Factual explanation:

Passenger location: 0

Passenger destination: 2

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|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

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Counterfactual explanation:

Passenger location: 4

Passenger destination: 2

State Path: 2, 2, 18

Loss function value: 0.95

Action path: PICKUP

Statement: Given that in state 2 the agent chose PICKUP in what state would it chose SOUTH?   
In state 18 where the passanger location is now In Taxi:

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|R: | : :G|

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|Y| : |B: |

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Factual explanation:

Passenger location: 0

Passenger destination: 2

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

No counterfactual found for target EAST

Factual explanation:

Passenger location: 0

Passenger destination: 2

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

No counterfactual found for target EAST

Factual explanation:

Passenger location: 0

Passenger destination: 3

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 4

Passenger destination: 3

State Path: 3, 3, 19, 39

Loss function value: 0.9

Action path: PICKUP, EAST

Statement: Given that in state 3 the agent chose PICKUP in what state would it chose SOUTH?   
In state 39 where the passanger location is now In Taxi:

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|R: | : :G|

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| | : | : |

|Y| : |B: |

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Factual explanation:

Passenger location: 0

Passenger destination: 3

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 4

Passenger destination: 3

State Path: 3, 3, 19

Loss function value: 0.95

Action path: PICKUP

Statement: Given that in state 3 the agent chose PICKUP in what state would it chose EAST?   
In state 19 where the passanger location is now In Taxi:

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|R: | : :G|

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| : : : : |

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|Y| : |B: |

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Factual explanation:

Passenger location: 1

Passenger destination: 0

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 1

Passenger destination: 0

State Path: 4, 4, 24

Loss function value: 0.95

Action path: EAST

Statement: Given that in state 4 the agent chose EAST in what state would it chose SOUTH?   
In state 24:

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|R: | : :G|

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|Y| : |B: |

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Factual explanation:

Passenger location: 1

Passenger destination: 2

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 1

Passenger destination: 2

State Path: 6, 6, 106, 206

Loss function value: 0.9

Action path: SOUTH, SOUTH

Statement: Given that in state 6 the agent chose SOUTH in what state would it chose EAST?   
In state 206:

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|R: | : :G|

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|Y| : |B: |

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Factual explanation:

Passenger location: 1

Passenger destination: 3

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

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Counterfactual explanation:

Passenger location: 1

Passenger destination: 3

State Path: 7, 7, 107

Loss function value: 0.95

Action path: SOUTH

Statement: Given that in state 7 the agent chose SOUTH in what state would it chose EAST?   
In state 107:

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|R: | : :G|

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|Y| : |B: |

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Factual explanation:

Passenger location: 2

Passenger destination: 0

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

No counterfactual found for target EAST

Factual explanation:

Passenger location: 2

Passenger destination: 0

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

No counterfactual found for target EAST

Factual explanation:

Passenger location: 2

Passenger destination: 1

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

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Counterfactual explanation:

Passenger location: 4

Passenger destination: 1

State Path: 9, 9, 109, 209, 309, 409, 417, 317, 217

Loss function value: 0.65

Action path: SOUTH, SOUTH, SOUTH, SOUTH, PICKUP, NORTH, NORTH

Statement: Given that in state 9 the agent chose SOUTH in what state would it chose EAST?   
In state 217 where the passanger location is now In Taxi:

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|R: | : :G|

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| : : : : |

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|Y| : |B: |

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Factual explanation:

Passenger location: 2

Passenger destination: 3

+---------+

|R: | : :G|

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|Y| : |B: |

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Counterfactual explanation:

Passenger location: 4

Passenger destination: 3

State Path: 11, 11, 111, 211, 311, 411, 419, 319, 219

Loss function value: 0.65

Action path: SOUTH, SOUTH, SOUTH, SOUTH, PICKUP, NORTH, NORTH

Statement: Given that in state 11 the agent chose SOUTH in what state would it chose EAST?   
In state 219 where the passanger location is now In Taxi:

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|R: | : :G|

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|Y| : |B: |

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Factual explanation:

Passenger location: 3

Passenger destination: 0

+---------+

|R: | : :G|

| : | : : |

| : : : : |

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|Y| : |B: |

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Counterfactual explanation:

Passenger location: 3

Passenger destination: 0

State Path: 12, 12, 112

Loss function value: 0.95

Action path: SOUTH

Statement: Given that in state 12 the agent chose SOUTH in what state would it chose EAST?   
In state 112:

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|R: | : :G|

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|Y| : |B: |

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Factual explanation:

Passenger location: 3

Passenger destination: 1

+---------+

|R: | : :G|

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| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 3

Passenger destination: 1

State Path: 13, 13, 113

Loss function value: 0.95

Action path: SOUTH

Statement: Given that in state 13 the agent chose EAST in what state would it chose SOUTH?   
In state 113:

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|R: | : :G|

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|Y| : |B: |

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Factual explanation:

Passenger location: 3

Passenger destination: 2

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 3

Passenger destination: 2

State Path: 14, 14, 114

Loss function value: 0.95

Action path: SOUTH

Statement: Given that in state 14 the agent chose SOUTH in what state would it chose EAST?   
In state 114:

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|R: | : :G|

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|Y| : |B: |

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Factual explanation:

Passenger location: 4

Passenger destination: 0

+---------+

|R: | : :G|

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| : : : : |

| | : | : |

|Y| : |B: |

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Counterfactual explanation:

Passenger location: 4

Passenger destination: 0

State Path: 16, 16, 36, 136, 236, 256, 156

Loss function value: 0.75

Action path: EAST, SOUTH, SOUTH, EAST, NORTH

Statement: Given that in state 16 the agent chose DROPOFF in what state would it chose SOUTH?   
In state 156:

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|R: | : :G|

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|Y| : |B: |

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Factual explanation:

Passenger location: 4

Passenger destination: 0

+---------+

|R: | : :G|

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| : : : : |

| | : | : |

|Y| : |B: |

+---------+

No counterfactual found for target EAST

Factual explanation:

Passenger location: 4

Passenger destination: 0

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

No counterfactual found for target EAST

Factual explanation:

Passenger location: 4

Passenger destination: 1

+---------+

|R: | : :G|

| : | : : |

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| | : | : |

|Y| : |B: |

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Counterfactual explanation:

Passenger location: 4

Passenger destination: 1

State Path: 17, 17, 37

Loss function value: 0.95

Action path: EAST

Statement: Given that in state 17 the agent chose EAST in what state would it chose SOUTH?   
In state 37:

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|R: | : :G|

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|Y| : |B: |

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Factual explanation:

Passenger location: 4

Passenger destination: 2

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

No counterfactual found for target EAST

Factual explanation:

Passenger location: 4

Passenger destination: 2

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

No counterfactual found for target EAST

Factual explanation:

Passenger location: 4

Passenger destination: 3

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

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Counterfactual explanation:

Passenger location: 4

Passenger destination: 3

State Path: 19, 19, 39

Loss function value: 0.95

Action path: EAST

Statement: Given that in state 19 the agent chose EAST in what state would it chose SOUTH?   
In state 39:

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|R: | : :G|

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|Y| : |B: |

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Factual explanation:

Passenger location: 0

Passenger destination: 1

+---------+

|R: | : :G|

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| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 4

Passenger destination: 1

State Path: 21, 21, 1, 17, 117

Loss function value: 0.85

Action path: WEST, PICKUP, SOUTH

Statement: Given that in state 21 the agent chose WEST in what state would it chose SOUTH?   
In state 117 where the passanger location is now In Taxi:

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|R: | : :G|

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|Y| : |B: |

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Factual explanation:

Passenger location: 0

Passenger destination: 2

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 4

Passenger destination: 2

State Path: 22, 22, 2, 18

Loss function value: 0.9

Action path: WEST, PICKUP

Statement: Given that in state 22 the agent chose WEST in what state would it chose SOUTH?   
In state 18 where the passanger location is now In Taxi:

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|R: | : :G|

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|Y| : |B: |

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Factual explanation:

Passenger location: 0

Passenger destination: 3

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 4

Passenger destination: 3

State Path: 23, 23, 3, 19, 39

Loss function value: 0.85

Action path: WEST, PICKUP, EAST

Statement: Given that in state 23 the agent chose WEST in what state would it chose SOUTH?   
In state 39 where the passanger location is now In Taxi:

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|R: | : :G|

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|Y| : |B: |

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Factual explanation:

Passenger location: 1

Passenger destination: 0

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

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Counterfactual explanation:

Passenger location: 4

Passenger destination: 0

State Path: 24, 24, 124, 224, 244, 264, 284, 184, 84, 96

Loss function value: 0.6

Action path: SOUTH, SOUTH, EAST, EAST, EAST, NORTH, NORTH, PICKUP

Statement: Given that in state 24 the agent chose SOUTH in what state would it chose WEST?   
In state 96 where the passanger location is now In Taxi:

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|R: | : :G|

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|Y| : |B: |

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Factual explanation:

Passenger location: 1

Passenger destination: 2

+---------+

|R: | : :G|

| : | : : |

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| | : | : |

|Y| : |B: |

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Counterfactual explanation:

Passenger location: 4

Passenger destination: 2

State Path: 26, 26, 126, 226, 246, 146, 166, 66, 86, 98

Loss function value: 0.6

Action path: SOUTH, SOUTH, EAST, NORTH, EAST, NORTH, EAST, PICKUP

Statement: Given that in state 26 the agent chose SOUTH in what state would it chose WEST?   
In state 98 where the passanger location is now In Taxi:

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|R: | : :G|

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|Y| : |B: |

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Factual explanation:

Passenger location: 1

Passenger destination: 3

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

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Counterfactual explanation:

Passenger location: 4

Passenger destination: 3

State Path: 27, 27, 127, 227, 247, 147, 167, 67, 87, 99

Loss function value: 0.6

Action path: SOUTH, SOUTH, EAST, NORTH, EAST, NORTH, EAST, PICKUP

Statement: Given that in state 27 the agent chose SOUTH in what state would it chose WEST?   
In state 99 where the passanger location is now In Taxi:

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|R: | : :G|

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|Y| : |B: |

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Factual explanation:

Passenger location: 2

Passenger destination: 0

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 2

Passenger destination: 0

State Path: 28, 28, 128

Loss function value: 0.95

Action path: SOUTH

Statement: Given that in state 28 the agent chose SOUTH in what state would it chose WEST?   
In state 128:

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|R: | : :G|

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|Y| : |B: |

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Factual explanation:

Passenger location: 2

Passenger destination: 1

+---------+

|R: | : :G|

| : | : : |

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| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 2

Passenger destination: 1

State Path: 29, 29, 129

Loss function value: 0.95

Action path: SOUTH

Statement: Given that in state 29 the agent chose SOUTH in what state would it chose WEST?   
In state 129:

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|R: | : :G|

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|Y| : |B: |

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Factual explanation:

Passenger location: 2

Passenger destination: 3

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 2

Passenger destination: 3

State Path: 31, 31, 11

Loss function value: 0.95

Action path: WEST

Statement: Given that in state 31 the agent chose WEST in what state would it chose SOUTH?   
In state 11:

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|R: | : :G|

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|Y| : |B: |

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Factual explanation:

Passenger location: 3

Passenger destination: 0

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

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Counterfactual explanation:

Passenger location: 3

Passenger destination: 0

State Path: 32, 32, 132, 232, 252, 272, 172, 192

Loss function value: 0.7

Action path: SOUTH, SOUTH, EAST, EAST, NORTH, EAST

Statement: Given that in state 32 the agent chose SOUTH in what state would it chose WEST?   
In state 192:

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|R: | : :G|

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|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 3

Passenger destination: 1

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

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Counterfactual explanation:

Passenger location: 3

Passenger destination: 1

State Path: 33, 33, 133, 233, 253, 273, 293

Loss function value: 0.75

Action path: SOUTH, SOUTH, EAST, EAST, EAST

Statement: Given that in state 33 the agent chose SOUTH in what state would it chose WEST?   
In state 293:

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|R: | : :G|

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|Y| : |B: |

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Factual explanation:

Passenger location: 3

Passenger destination: 2

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

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Counterfactual explanation:

Passenger location: 3

Passenger destination: 2

State Path: 34, 34, 134, 234, 254, 274, 294

Loss function value: 0.75

Action path: SOUTH, SOUTH, EAST, EAST, EAST

Statement: Given that in state 34 the agent chose SOUTH in what state would it chose WEST?   
In state 294:

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|R: | : :G|

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|Y| : |B: |

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Factual explanation:

Passenger location: 4

Passenger destination: 0

+---------+

|R: | : :G|

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|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 4

Passenger destination: 0

State Path: 36, 36, 136, 236, 256, 156

Loss function value: 0.8

Action path: SOUTH, SOUTH, EAST, NORTH

Statement: Given that in state 36 the agent chose WEST in what state would it chose SOUTH?   
In state 156:

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|R: | : :G|

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|Y| : |B: |

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Factual explanation:

Passenger location: 4

Passenger destination: 1

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

No counterfactual found for target WEST

Factual explanation:

Passenger location: 4

Passenger destination: 1

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

No counterfactual found for target WEST

Factual explanation:

Passenger location: 4

Passenger destination: 2

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 4

Passenger destination: 2

State Path: 38, 38, 18

Loss function value: 0.95

Action path: WEST

Statement: Given that in state 38 the agent chose WEST in what state would it chose SOUTH?   
In state 18:

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|R: | : :G|

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|Y| : |B: |

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Factual explanation:

Passenger location: 4

Passenger destination: 3

+---------+

|R: | : :G|

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| : : : : |

| | : | : |

|Y| : |B: |

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Counterfactual explanation:

Passenger location: 4

Passenger destination: 3

State Path: 39, 39, 139, 239, 259, 279, 179, 199

Loss function value: 0.7

Action path: SOUTH, SOUTH, EAST, EAST, NORTH, EAST

Statement: Given that in state 39 the agent chose SOUTH in what state would it chose WEST?   
In state 199:

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|R: | : :G|

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|Y| : |B: |

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Factual explanation:

Passenger location: 0

Passenger destination: 1

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

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Counterfactual explanation:

Passenger location: 4

Passenger destination: 1

State Path: 41, 41, 141, 241, 221, 121, 101, 1, 17

Loss function value: 0.65

Action path: SOUTH, SOUTH, WEST, NORTH, WEST, NORTH, PICKUP

Statement: Given that in state 41 the agent chose SOUTH in what state would it chose EAST?   
In state 17 where the passanger location is now In Taxi:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 0

Passenger destination: 2

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

No counterfactual found for target EAST

Factual explanation:

Passenger location: 0

Passenger destination: 2

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

No counterfactual found for target EAST

Factual explanation:

Passenger location: 0

Passenger destination: 3

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

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Counterfactual explanation:

Passenger location: 4

Passenger destination: 3

State Path: 43, 43, 143, 243, 223, 123, 103, 3, 19

Loss function value: 0.65

Action path: SOUTH, SOUTH, WEST, NORTH, WEST, NORTH, PICKUP

Statement: Given that in state 43 the agent chose SOUTH in what state would it chose EAST?   
In state 19 where the passanger location is now In Taxi:

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|R: | : :G|

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| | : | : |

|Y| : |B: |

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Factual explanation:

Passenger location: 1

Passenger destination: 0

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 1

Passenger destination: 0

State Path: 44, 44, 144, 244, 224, 124

Loss function value: 0.8

Action path: SOUTH, SOUTH, WEST, NORTH

Statement: Given that in state 44 the agent chose EAST in what state would it chose SOUTH?   
In state 124:

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|R: | : :G|

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| | : | : |

|Y| : |B: |

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Factual explanation:

Passenger location: 1

Passenger destination: 2

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

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Counterfactual explanation:

Passenger location: 1

Passenger destination: 2

State Path: 46, 46, 146, 246, 226, 126

Loss function value: 0.8

Action path: SOUTH, SOUTH, WEST, NORTH

Statement: Given that in state 46 the agent chose EAST in what state would it chose SOUTH?   
In state 126:

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|R: | : :G|

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| : : : : |

| | : | : |

|Y| : |B: |

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Factual explanation:

Passenger location: 1

Passenger destination: 3

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 1

Passenger destination: 3

State Path: 47, 47, 147, 247, 227, 127

Loss function value: 0.8

Action path: SOUTH, SOUTH, WEST, NORTH

Statement: Given that in state 47 the agent chose EAST in what state would it chose SOUTH?   
In state 127:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

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Factual explanation:

Passenger location: 2

Passenger destination: 0

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

No counterfactual found for target EAST

Factual explanation:

Passenger location: 2

Passenger destination: 0

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

No counterfactual found for target EAST

Factual explanation:

Passenger location: 2

Passenger destination: 1

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

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Counterfactual explanation:

Passenger location: 4

Passenger destination: 1

State Path: 49, 49, 149, 249, 229, 209, 309, 409, 417, 317, 217

Loss function value: 0.55

Action path: SOUTH, SOUTH, WEST, WEST, SOUTH, SOUTH, PICKUP, NORTH, NORTH

Statement: Given that in state 49 the agent chose SOUTH in what state would it chose EAST?   
In state 217 where the passanger location is now In Taxi:

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|R: | : :G|

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|Y| : |B: |

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Factual explanation:

Passenger location: 2

Passenger destination: 3

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 4

Passenger destination: 3

State Path: 51, 51, 151, 251, 231, 211, 311, 411, 419, 319, 219

Loss function value: 0.55

Action path: SOUTH, SOUTH, WEST, WEST, SOUTH, SOUTH, PICKUP, NORTH, NORTH

Statement: Given that in state 51 the agent chose SOUTH in what state would it chose EAST?   
In state 219 where the passanger location is now In Taxi:

+---------+

|R: | : :G|

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| : : : : |

| | : | : |

|Y| : |B: |

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Factual explanation:

Passenger location: 3

Passenger destination: 0

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 3

Passenger destination: 0

State Path: 52, 52, 72

Loss function value: 0.95

Action path: EAST

Statement: Given that in state 52 the agent chose EAST in what state would it chose SOUTH?   
In state 72:

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|R: | : :G|

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| | : | : |

|Y| : |B: |

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Factual explanation:

Passenger location: 3

Passenger destination: 1

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 3

Passenger destination: 1

State Path: 53, 53, 153, 253

Loss function value: 0.9

Action path: SOUTH, SOUTH

Statement: Given that in state 53 the agent chose SOUTH in what state would it chose EAST?   
In state 253:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 3

Passenger destination: 2

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 3

Passenger destination: 2

State Path: 54, 54, 154, 254

Loss function value: 0.9

Action path: SOUTH, SOUTH

Statement: Given that in state 54 the agent chose SOUTH in what state would it chose EAST?   
In state 254:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 4

Passenger destination: 0

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

No counterfactual found for target EAST

Factual explanation:

Passenger location: 4

Passenger destination: 0

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

No counterfactual found for target EAST

Factual explanation:

Passenger location: 4

Passenger destination: 1

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 4

Passenger destination: 1

State Path: 57, 57, 77

Loss function value: 0.95

Action path: EAST

Statement: Given that in state 57 the agent chose SOUTH in what state would it chose EAST?   
In state 77:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

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Factual explanation:

Passenger location: 4

Passenger destination: 2

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

No counterfactual found for target EAST

Factual explanation:

Passenger location: 4

Passenger destination: 2

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

No counterfactual found for target EAST

Factual explanation:

Passenger location: 4

Passenger destination: 3

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 4

Passenger destination: 3

State Path: 59, 59, 79

Loss function value: 0.95

Action path: EAST

Statement: Given that in state 59 the agent chose EAST in what state would it chose SOUTH?   
In state 79:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 0

Passenger destination: 1

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 0

Passenger destination: 1

State Path: 61, 61, 41

Loss function value: 0.95

Action path: WEST

Statement: Given that in state 61 the agent chose WEST in what state would it chose SOUTH?   
In state 41:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 0

Passenger destination: 1

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

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Counterfactual explanation:

Passenger location: 4

Passenger destination: 1

State Path: 61, 61, 41, 141, 241, 221, 201, 101, 1, 17

Loss function value: 0.6

Action path: WEST, SOUTH, SOUTH, WEST, WEST, NORTH, NORTH, PICKUP

Statement: Given that in state 61 the agent chose WEST in what state would it chose EAST?   
In state 17 where the passanger location is now In Taxi:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 0

Passenger destination: 2

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

No counterfactual found for target EAST

Factual explanation:

Passenger location: 0

Passenger destination: 2

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

No counterfactual found for target EAST

Factual explanation:

Passenger location: 0

Passenger destination: 2

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 0

Passenger destination: 2

State Path: 62, 62, 82

Loss function value: 0.95

Action path: EAST

Statement: Given that in state 62 the agent chose SOUTH in what state would it chose WEST?   
In state 82:

+---------+

|R: | : :G|

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|Y| : |B: |

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Factual explanation:

Passenger location: 0

Passenger destination: 3

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 0

Passenger destination: 3

State Path: 63, 63, 43

Loss function value: 0.95

Action path: WEST

Statement: Given that in state 63 the agent chose WEST in what state would it chose SOUTH?   
In state 43:

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|R: | : :G|

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|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 0

Passenger destination: 3

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 4

Passenger destination: 3

State Path: 63, 63, 43, 143, 243, 223, 203, 103, 3, 19

Loss function value: 0.6

Action path: WEST, SOUTH, SOUTH, WEST, WEST, NORTH, NORTH, PICKUP

Statement: Given that in state 63 the agent chose WEST in what state would it chose EAST?   
In state 19 where the passanger location is now In Taxi:

+---------+

|R: | : :G|

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| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 1

Passenger destination: 0

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 4

Passenger destination: 0

State Path: 64, 64, 84, 96, 76, 56

Loss function value: 0.8

Action path: EAST, PICKUP, WEST, WEST

Statement: Given that in state 64 the agent chose EAST in what state would it chose SOUTH?   
In state 56 where the passanger location is now In Taxi:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 1

Passenger destination: 0

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 4

Passenger destination: 0

State Path: 64, 64, 84, 96

Loss function value: 0.9

Action path: EAST, PICKUP

Statement: Given that in state 64 the agent chose EAST in what state would it chose WEST?   
In state 96 where the passanger location is now In Taxi:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 1

Passenger destination: 2

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 4

Passenger destination: 2

State Path: 66, 66, 86, 98, 78, 58

Loss function value: 0.8

Action path: EAST, PICKUP, WEST, WEST

Statement: Given that in state 66 the agent chose EAST in what state would it chose SOUTH?   
In state 58 where the passanger location is now In Taxi:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 1

Passenger destination: 2

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 4

Passenger destination: 2

State Path: 66, 66, 86, 98

Loss function value: 0.9

Action path: EAST, PICKUP

Statement: Given that in state 66 the agent chose EAST in what state would it chose WEST?   
In state 98 where the passanger location is now In Taxi:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 1

Passenger destination: 3

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 4

Passenger destination: 3

State Path: 67, 67, 87, 99, 79

Loss function value: 0.85

Action path: EAST, PICKUP, WEST

Statement: Given that in state 67 the agent chose EAST in what state would it chose SOUTH?   
In state 79 where the passanger location is now In Taxi:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 1

Passenger destination: 3

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 4

Passenger destination: 3

State Path: 67, 67, 87, 99

Loss function value: 0.9

Action path: EAST, PICKUP

Statement: Given that in state 67 the agent chose EAST in what state would it chose WEST?   
In state 99 where the passanger location is now In Taxi:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 2

Passenger destination: 0

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

No counterfactual found for target EAST

Factual explanation:

Passenger location: 2

Passenger destination: 0

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

No counterfactual found for target EAST

Factual explanation:

Passenger location: 2

Passenger destination: 0

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 2

Passenger destination: 0

State Path: 68, 68, 88

Loss function value: 0.95

Action path: EAST

Statement: Given that in state 68 the agent chose SOUTH in what state would it chose WEST?   
In state 88:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 2

Passenger destination: 1

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 2

Passenger destination: 1

State Path: 69, 69, 49

Loss function value: 0.95

Action path: WEST

Statement: Given that in state 69 the agent chose WEST in what state would it chose SOUTH?   
In state 49:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 2

Passenger destination: 1

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 4

Passenger destination: 1

State Path: 69, 69, 49, 149, 249, 229, 209, 309, 409, 417, 317, 217

Loss function value: 0.5

Action path: WEST, SOUTH, SOUTH, WEST, WEST, SOUTH, SOUTH, PICKUP, NORTH, NORTH

Statement: Given that in state 69 the agent chose WEST in what state would it chose EAST?   
In state 217 where the passanger location is now In Taxi:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 2

Passenger destination: 3

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 4

Passenger destination: 3

State Path: 71, 71, 51, 151, 251, 231, 211, 311, 411, 419, 319, 219

Loss function value: 0.5

Action path: WEST, SOUTH, SOUTH, WEST, WEST, SOUTH, SOUTH, PICKUP, NORTH, NORTH

Statement: Given that in state 71 the agent chose SOUTH in what state would it chose EAST?   
In state 219 where the passanger location is now In Taxi:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 2

Passenger destination: 3

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 2

Passenger destination: 3

State Path: 71, 71, 171

Loss function value: 0.95

Action path: SOUTH

Statement: Given that in state 71 the agent chose SOUTH in what state would it chose WEST?   
In state 171:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 3

Passenger destination: 0

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 3

Passenger destination: 0

State Path: 72, 72, 52

Loss function value: 0.95

Action path: WEST

Statement: Given that in state 72 the agent chose SOUTH in what state would it chose EAST?   
In state 52:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 3

Passenger destination: 0

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 3

Passenger destination: 0

State Path: 72, 72, 92, 192

Loss function value: 0.9

Action path: EAST, SOUTH

Statement: Given that in state 72 the agent chose SOUTH in what state would it chose WEST?   
In state 192:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 3

Passenger destination: 1

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 3

Passenger destination: 1

State Path: 73, 73, 173, 273, 253

Loss function value: 0.85

Action path: SOUTH, SOUTH, WEST

Statement: Given that in state 73 the agent chose SOUTH in what state would it chose EAST?   
In state 253:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 3

Passenger destination: 1

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 3

Passenger destination: 1

State Path: 73, 73, 173, 193, 293

Loss function value: 0.85

Action path: SOUTH, EAST, SOUTH

Statement: Given that in state 73 the agent chose SOUTH in what state would it chose WEST?   
In state 293:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 3

Passenger destination: 2

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 3

Passenger destination: 2

State Path: 74, 74, 174, 274, 254

Loss function value: 0.85

Action path: SOUTH, SOUTH, WEST

Statement: Given that in state 74 the agent chose SOUTH in what state would it chose EAST?   
In state 254:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 3

Passenger destination: 2

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 3

Passenger destination: 2

State Path: 74, 74, 94, 194, 294

Loss function value: 0.85

Action path: EAST, SOUTH, SOUTH

Statement: Given that in state 74 the agent chose SOUTH in what state would it chose WEST?   
In state 294:

+---------+

|R: | : :G|

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| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 4

Passenger destination: 0

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 4

Passenger destination: 0

State Path: 76, 76, 56

Loss function value: 0.95

Action path: WEST

Statement: Given that in state 76 the agent chose WEST in what state would it chose SOUTH?   
In state 56:

+---------+

|R: | : :G|

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| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 4

Passenger destination: 0

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

No counterfactual found for target EAST

Factual explanation:

Passenger location: 4

Passenger destination: 0

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

No counterfactual found for target EAST

Factual explanation:

Passenger location: 4

Passenger destination: 1

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 4

Passenger destination: 1

State Path: 77, 77, 57

Loss function value: 0.95

Action path: WEST

Statement: Given that in state 77 the agent chose EAST in what state would it chose SOUTH?   
In state 57:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

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Factual explanation:

Passenger location: 4

Passenger destination: 1

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

No counterfactual found for target WEST

Factual explanation:

Passenger location: 4

Passenger destination: 1

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

No counterfactual found for target WEST

Factual explanation:

Passenger location: 4

Passenger destination: 2

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 4

Passenger destination: 2

State Path: 78, 78, 58

Loss function value: 0.95

Action path: WEST

Statement: Given that in state 78 the agent chose WEST in what state would it chose SOUTH?   
In state 58:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 4

Passenger destination: 2

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

No counterfactual found for target EAST

Factual explanation:

Passenger location: 4

Passenger destination: 2

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

No counterfactual found for target EAST

Factual explanation:

Passenger location: 4

Passenger destination: 3

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 4

Passenger destination: 3

State Path: 79, 79, 59

Loss function value: 0.95

Action path: WEST

Statement: Given that in state 79 the agent chose SOUTH in what state would it chose EAST?   
In state 59:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 4

Passenger destination: 3

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 4

Passenger destination: 3

State Path: 79, 79, 99

Loss function value: 0.95

Action path: EAST

Statement: Given that in state 79 the agent chose SOUTH in what state would it chose WEST?   
In state 99:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 0

Passenger destination: 1

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 0

Passenger destination: 1

State Path: 81, 81, 181

Loss function value: 0.95

Action path: SOUTH

Statement: Given that in state 81 the agent chose WEST in what state would it chose SOUTH?   
In state 181:

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|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 0

Passenger destination: 2

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 0

Passenger destination: 2

State Path: 82, 82, 62

Loss function value: 0.95

Action path: WEST

Statement: Given that in state 82 the agent chose WEST in what state would it chose SOUTH?   
In state 62:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 0

Passenger destination: 3

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 0

Passenger destination: 3

State Path: 83, 83, 63, 43

Loss function value: 0.9

Action path: WEST, WEST

Statement: Given that in state 83 the agent chose WEST in what state would it chose SOUTH?   
In state 43:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 1

Passenger destination: 0

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 4

Passenger destination: 0

State Path: 84, 84, 96, 76, 56

Loss function value: 0.85

Action path: PICKUP, WEST, WEST

Statement: Given that in state 84 the agent chose PICKUP in what state would it chose SOUTH?   
In state 56 where the passanger location is now In Taxi:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 1

Passenger destination: 0

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 4

Passenger destination: 0

State Path: 84, 84, 96

Loss function value: 0.95

Action path: PICKUP

Statement: Given that in state 84 the agent chose PICKUP in what state would it chose WEST?   
In state 96 where the passanger location is now In Taxi:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 1

Passenger destination: 1

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

No counterfactual found for target SOUTH

Factual explanation:

Passenger location: 1

Passenger destination: 1

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

No counterfactual found for target SOUTH

Factual explanation:

Passenger location: 1

Passenger destination: 1

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

No counterfactual found for target WEST

Factual explanation:

Passenger location: 1

Passenger destination: 1

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

No counterfactual found for target WEST

Factual explanation:

Passenger location: 1

Passenger destination: 1

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

No counterfactual found for target PICKUP

Factual explanation:

Passenger location: 1

Passenger destination: 1

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

No counterfactual found for target PICKUP

Factual explanation:

Passenger location: 1

Passenger destination: 2

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 4

Passenger destination: 2

State Path: 86, 86, 98, 78, 58

Loss function value: 0.85

Action path: PICKUP, WEST, WEST

Statement: Given that in state 86 the agent chose PICKUP in what state would it chose SOUTH?   
In state 58 where the passanger location is now In Taxi:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 1

Passenger destination: 2

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 4

Passenger destination: 2

State Path: 86, 86, 98

Loss function value: 0.95

Action path: PICKUP

Statement: Given that in state 86 the agent chose PICKUP in what state would it chose WEST?   
In state 98 where the passanger location is now In Taxi:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 1

Passenger destination: 3

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 4

Passenger destination: 3

State Path: 87, 87, 99, 79

Loss function value: 0.9

Action path: PICKUP, WEST

Statement: Given that in state 87 the agent chose PICKUP in what state would it chose SOUTH?   
In state 79 where the passanger location is now In Taxi:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 1

Passenger destination: 3

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 4

Passenger destination: 3

State Path: 87, 87, 99

Loss function value: 0.95

Action path: PICKUP

Statement: Given that in state 87 the agent chose PICKUP in what state would it chose WEST?   
In state 99 where the passanger location is now In Taxi:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 2

Passenger destination: 0

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 2

Passenger destination: 0

State Path: 88, 88, 68

Loss function value: 0.95

Action path: WEST

Statement: Given that in state 88 the agent chose WEST in what state would it chose SOUTH?   
In state 68:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 2

Passenger destination: 1

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 2

Passenger destination: 1

State Path: 89, 89, 69, 49

Loss function value: 0.9

Action path: WEST, WEST

Statement: Given that in state 89 the agent chose WEST in what state would it chose SOUTH?   
In state 49:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 2

Passenger destination: 3

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 2

Passenger destination: 3

State Path: 91, 91, 191

Loss function value: 0.95

Action path: SOUTH

Statement: Given that in state 91 the agent chose SOUTH in what state would it chose WEST?   
In state 191:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 3

Passenger destination: 0

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 3

Passenger destination: 0

State Path: 92, 92, 192

Loss function value: 0.95

Action path: SOUTH

Statement: Given that in state 92 the agent chose SOUTH in what state would it chose WEST?   
In state 192:

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|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 3

Passenger destination: 1

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 3

Passenger destination: 1

State Path: 93, 93, 193, 293

Loss function value: 0.9

Action path: SOUTH, SOUTH

Statement: Given that in state 93 the agent chose SOUTH in what state would it chose WEST?   
In state 293:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 3

Passenger destination: 2

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 3

Passenger destination: 2

State Path: 94, 94, 194, 294

Loss function value: 0.9

Action path: SOUTH, SOUTH

Statement: Given that in state 94 the agent chose SOUTH in what state would it chose WEST?   
In state 294:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 4

Passenger destination: 0

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 4

Passenger destination: 0

State Path: 96, 96, 76, 56

Loss function value: 0.9

Action path: WEST, WEST

Statement: Given that in state 96 the agent chose WEST in what state would it chose SOUTH?   
In state 56:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 4

Passenger destination: 1

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 4

Passenger destination: 1

State Path: 97, 97, 77, 57

Loss function value: 0.9

Action path: WEST, WEST

Statement: Given that in state 97 the agent chose DROPOFF in what state would it chose SOUTH?   
In state 57:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 4

Passenger destination: 1

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

No counterfactual found for target WEST

Factual explanation:

Passenger location: 4

Passenger destination: 1

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

No counterfactual found for target WEST

Factual explanation:

Passenger location: 4

Passenger destination: 2

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 4

Passenger destination: 2

State Path: 98, 98, 78, 58

Loss function value: 0.9

Action path: WEST, WEST

Statement: Given that in state 98 the agent chose WEST in what state would it chose SOUTH?   
In state 58:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 4

Passenger destination: 3

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 4

Passenger destination: 3

State Path: 99, 99, 79

Loss function value: 0.95

Action path: WEST

Statement: Given that in state 99 the agent chose WEST in what state would it chose SOUTH?   
In state 79:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 0

Passenger destination: 1

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 4

Passenger destination: 1

State Path: 101, 101, 1, 17, 37

Loss function value: 0.85

Action path: NORTH, PICKUP, EAST

Statement: Given that in state 101 the agent chose NORTH in what state would it chose SOUTH?   
In state 37 where the passanger location is now In Taxi:

+---------+

|R: | : :G|

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| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 0

Passenger destination: 1

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 4

Passenger destination: 1

State Path: 101, 101, 1, 17

Loss function value: 0.9

Action path: NORTH, PICKUP

Statement: Given that in state 101 the agent chose NORTH in what state would it chose EAST?   
In state 17 where the passanger location is now In Taxi:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 0

Passenger destination: 2

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 4

Passenger destination: 2

State Path: 102, 102, 2, 18

Loss function value: 0.9

Action path: NORTH, PICKUP

Statement: Given that in state 102 the agent chose NORTH in what state would it chose SOUTH?   
In state 18 where the passanger location is now In Taxi:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 0

Passenger destination: 2

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

No counterfactual found for target EAST

Factual explanation:

Passenger location: 0

Passenger destination: 2

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

No counterfactual found for target EAST

Factual explanation:

Passenger location: 0

Passenger destination: 3

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 4

Passenger destination: 3

State Path: 103, 103, 3, 19, 39

Loss function value: 0.85

Action path: NORTH, PICKUP, EAST

Statement: Given that in state 103 the agent chose NORTH in what state would it chose SOUTH?   
In state 39 where the passanger location is now In Taxi:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 0

Passenger destination: 3

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 4

Passenger destination: 3

State Path: 103, 103, 3, 19

Loss function value: 0.9

Action path: NORTH, PICKUP

Statement: Given that in state 103 the agent chose NORTH in what state would it chose EAST?   
In state 19 where the passanger location is now In Taxi:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 1

Passenger destination: 0

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 1

Passenger destination: 0

State Path: 104, 104, 124

Loss function value: 0.95

Action path: EAST

Statement: Given that in state 104 the agent chose EAST in what state would it chose SOUTH?   
In state 124:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 1

Passenger destination: 0

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 1

Passenger destination: 0

State Path: 104, 104, 204, 304

Loss function value: 0.9

Action path: SOUTH, SOUTH

Statement: Given that in state 104 the agent chose EAST in what state would it chose NORTH?   
In state 304:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 1

Passenger destination: 2

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 1

Passenger destination: 2

State Path: 106, 106, 206, 306

Loss function value: 0.9

Action path: SOUTH, SOUTH

Statement: Given that in state 106 the agent chose SOUTH in what state would it chose NORTH?   
In state 306:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 1

Passenger destination: 2

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 1

Passenger destination: 2

State Path: 106, 106, 206

Loss function value: 0.95

Action path: SOUTH

Statement: Given that in state 106 the agent chose SOUTH in what state would it chose EAST?   
In state 206:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 1

Passenger destination: 3

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 1

Passenger destination: 3

State Path: 107, 107, 127

Loss function value: 0.95

Action path: EAST

Statement: Given that in state 107 the agent chose EAST in what state would it chose SOUTH?   
In state 127:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 1

Passenger destination: 3

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 1

Passenger destination: 3

State Path: 107, 107, 207, 307

Loss function value: 0.9

Action path: SOUTH, SOUTH

Statement: Given that in state 107 the agent chose EAST in what state would it chose NORTH?   
In state 307:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 2

Passenger destination: 0

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 2

Passenger destination: 0

State Path: 108, 108, 128, 228, 328

Loss function value: 0.85

Action path: EAST, SOUTH, SOUTH

Statement: Given that in state 108 the agent chose SOUTH in what state would it chose NORTH?   
In state 328:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 2

Passenger destination: 0

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

No counterfactual found for target EAST

Factual explanation:

Passenger location: 2

Passenger destination: 0

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

No counterfactual found for target EAST

Factual explanation:

Passenger location: 2

Passenger destination: 1

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 2

Passenger destination: 1

State Path: 109, 109, 129, 229, 329

Loss function value: 0.85

Action path: EAST, SOUTH, SOUTH

Statement: Given that in state 109 the agent chose SOUTH in what state would it chose NORTH?   
In state 329:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 2

Passenger destination: 1

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 4

Passenger destination: 1

State Path: 109, 109, 209, 309, 409, 417, 317, 217

Loss function value: 0.7

Action path: SOUTH, SOUTH, SOUTH, PICKUP, NORTH, NORTH

Statement: Given that in state 109 the agent chose SOUTH in what state would it chose EAST?   
In state 217 where the passanger location is now In Taxi:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 2

Passenger destination: 3

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 2

Passenger destination: 3

State Path: 111, 111, 131, 231, 331

Loss function value: 0.85

Action path: EAST, SOUTH, SOUTH

Statement: Given that in state 111 the agent chose SOUTH in what state would it chose NORTH?   
In state 331:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 2

Passenger destination: 3

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 4

Passenger destination: 3

State Path: 111, 111, 211, 311, 411, 419, 319, 219

Loss function value: 0.7

Action path: SOUTH, SOUTH, SOUTH, PICKUP, NORTH, NORTH

Statement: Given that in state 111 the agent chose SOUTH in what state would it chose EAST?   
In state 219 where the passanger location is now In Taxi:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 3

Passenger destination: 0

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 3

Passenger destination: 0

State Path: 112, 112, 12

Loss function value: 0.95

Action path: NORTH

Statement: Given that in state 112 the agent chose EAST in what state would it chose SOUTH?   
In state 12:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 3

Passenger destination: 0

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 3

Passenger destination: 0

State Path: 112, 112, 212, 312

Loss function value: 0.9

Action path: SOUTH, SOUTH

Statement: Given that in state 112 the agent chose EAST in what state would it chose NORTH?   
In state 312:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 3

Passenger destination: 1

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 3

Passenger destination: 1

State Path: 113, 113, 213, 313

Loss function value: 0.9

Action path: SOUTH, SOUTH

Statement: Given that in state 113 the agent chose SOUTH in what state would it chose NORTH?   
In state 313:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 3

Passenger destination: 1

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 3

Passenger destination: 1

State Path: 113, 113, 213

Loss function value: 0.95

Action path: SOUTH

Statement: Given that in state 113 the agent chose SOUTH in what state would it chose EAST?   
In state 213:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 3

Passenger destination: 2

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 3

Passenger destination: 2

State Path: 114, 114, 14

Loss function value: 0.95

Action path: NORTH

Statement: Given that in state 114 the agent chose EAST in what state would it chose SOUTH?   
In state 14:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 3

Passenger destination: 2

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 3

Passenger destination: 2

State Path: 114, 114, 214, 314

Loss function value: 0.9

Action path: SOUTH, SOUTH

Statement: Given that in state 114 the agent chose EAST in what state would it chose NORTH?   
In state 314:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 4

Passenger destination: 0

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 4

Passenger destination: 0

State Path: 116, 116, 136, 236, 256, 156

Loss function value: 0.8

Action path: EAST, SOUTH, EAST, NORTH

Statement: Given that in state 116 the agent chose NORTH in what state would it chose SOUTH?   
In state 156:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 4

Passenger destination: 0

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

No counterfactual found for target EAST

Factual explanation:

Passenger location: 4

Passenger destination: 0

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

No counterfactual found for target EAST

Factual explanation:

Passenger location: 4

Passenger destination: 1

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 4

Passenger destination: 1

State Path: 117, 117, 217, 317

Loss function value: 0.9

Action path: SOUTH, SOUTH

Statement: Given that in state 117 the agent chose SOUTH in what state would it chose NORTH?   
In state 317:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 4

Passenger destination: 1

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 4

Passenger destination: 1

State Path: 117, 117, 217

Loss function value: 0.95

Action path: SOUTH

Statement: Given that in state 117 the agent chose SOUTH in what state would it chose EAST?   
In state 217:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 4

Passenger destination: 2

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 4

Passenger destination: 2

State Path: 118, 118, 218, 238, 338

Loss function value: 0.85

Action path: SOUTH, EAST, SOUTH

Statement: Given that in state 118 the agent chose SOUTH in what state would it chose NORTH?   
In state 338:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 4

Passenger destination: 2

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

No counterfactual found for target EAST

Factual explanation:

Passenger location: 4

Passenger destination: 2

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

No counterfactual found for target EAST

Factual explanation:

Passenger location: 4

Passenger destination: 3

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 4

Passenger destination: 3

State Path: 119, 119, 139

Loss function value: 0.95

Action path: EAST

Statement: Given that in state 119 the agent chose EAST in what state would it chose SOUTH?   
In state 139:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 4

Passenger destination: 3

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 4

Passenger destination: 3

State Path: 119, 119, 219, 319

Loss function value: 0.9

Action path: SOUTH, SOUTH

Statement: Given that in state 119 the agent chose EAST in what state would it chose NORTH?   
In state 319:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 0

Passenger destination: 1

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 0

Passenger destination: 1

State Path: 121, 121, 221, 241, 141

Loss function value: 0.85

Action path: SOUTH, EAST, NORTH

Statement: Given that in state 121 the agent chose WEST in what state would it chose SOUTH?   
In state 141:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 0

Passenger destination: 1

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 0

Passenger destination: 1

State Path: 121, 121, 101

Loss function value: 0.95

Action path: WEST

Statement: Given that in state 121 the agent chose WEST in what state would it chose NORTH?   
In state 101:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 0

Passenger destination: 2

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 0

Passenger destination: 2

State Path: 122, 122, 222, 242, 142

Loss function value: 0.85

Action path: SOUTH, EAST, NORTH

Statement: Given that in state 122 the agent chose WEST in what state would it chose SOUTH?   
In state 142:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 0

Passenger destination: 2

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 0

Passenger destination: 2

State Path: 122, 122, 102

Loss function value: 0.95

Action path: WEST

Statement: Given that in state 122 the agent chose WEST in what state would it chose NORTH?   
In state 102:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 0

Passenger destination: 3

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 0

Passenger destination: 3

State Path: 123, 123, 223, 243, 143

Loss function value: 0.85

Action path: SOUTH, EAST, NORTH

Statement: Given that in state 123 the agent chose WEST in what state would it chose SOUTH?   
In state 143:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 0

Passenger destination: 3

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 0

Passenger destination: 3

State Path: 123, 123, 103

Loss function value: 0.95

Action path: WEST

Statement: Given that in state 123 the agent chose WEST in what state would it chose NORTH?   
In state 103:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 1

Passenger destination: 0

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 1

Passenger destination: 0

State Path: 124, 124, 104, 204, 304

Loss function value: 0.85

Action path: WEST, SOUTH, SOUTH

Statement: Given that in state 124 the agent chose SOUTH in what state would it chose NORTH?   
In state 304:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 1

Passenger destination: 0

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 4

Passenger destination: 0

State Path: 124, 124, 224, 244, 264, 284, 184, 84, 96

Loss function value: 0.65

Action path: SOUTH, EAST, EAST, EAST, NORTH, NORTH, PICKUP

Statement: Given that in state 124 the agent chose SOUTH in what state would it chose WEST?   
In state 96 where the passanger location is now In Taxi:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 1

Passenger destination: 2

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 1

Passenger destination: 2

State Path: 126, 126, 226, 206, 306

Loss function value: 0.85

Action path: SOUTH, WEST, SOUTH

Statement: Given that in state 126 the agent chose SOUTH in what state would it chose NORTH?   
In state 306:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 1

Passenger destination: 2

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 4

Passenger destination: 2

State Path: 126, 126, 226, 246, 266, 286, 186, 86, 98

Loss function value: 0.65

Action path: SOUTH, EAST, EAST, EAST, NORTH, NORTH, PICKUP

Statement: Given that in state 126 the agent chose SOUTH in what state would it chose WEST?   
In state 98 where the passanger location is now In Taxi:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 1

Passenger destination: 3

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 1

Passenger destination: 3

State Path: 127, 127, 227, 327, 427

Loss function value: 0.85

Action path: SOUTH, SOUTH, SOUTH

Statement: Given that in state 127 the agent chose SOUTH in what state would it chose NORTH?   
In state 427:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 1

Passenger destination: 3

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 4

Passenger destination: 3

State Path: 127, 127, 227, 247, 267, 167, 67, 87, 99

Loss function value: 0.65

Action path: SOUTH, EAST, EAST, NORTH, NORTH, EAST, PICKUP

Statement: Given that in state 127 the agent chose SOUTH in what state would it chose WEST?   
In state 99 where the passanger location is now In Taxi:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 2

Passenger destination: 0

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 2

Passenger destination: 0

State Path: 128, 128, 108

Loss function value: 0.95

Action path: WEST

Statement: Given that in state 128 the agent chose WEST in what state would it chose SOUTH?   
In state 108:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 2

Passenger destination: 0

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 2

Passenger destination: 0

State Path: 128, 128, 228, 328

Loss function value: 0.9

Action path: SOUTH, SOUTH

Statement: Given that in state 128 the agent chose WEST in what state would it chose NORTH?   
In state 328:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 2

Passenger destination: 1

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 2

Passenger destination: 1

State Path: 129, 129, 29

Loss function value: 0.95

Action path: NORTH

Statement: Given that in state 129 the agent chose WEST in what state would it chose SOUTH?   
In state 29:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 2

Passenger destination: 1

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 2

Passenger destination: 1

State Path: 129, 129, 229, 329

Loss function value: 0.9

Action path: SOUTH, SOUTH

Statement: Given that in state 129 the agent chose WEST in what state would it chose NORTH?   
In state 329:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 2

Passenger destination: 3

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 2

Passenger destination: 3

State Path: 131, 131, 111

Loss function value: 0.95

Action path: WEST

Statement: Given that in state 131 the agent chose WEST in what state would it chose SOUTH?   
In state 111:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 2

Passenger destination: 3

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 2

Passenger destination: 3

State Path: 131, 131, 231, 331

Loss function value: 0.9

Action path: SOUTH, SOUTH

Statement: Given that in state 131 the agent chose WEST in what state would it chose NORTH?   
In state 331:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 3

Passenger destination: 0

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 3

Passenger destination: 0

State Path: 132, 132, 232, 332

Loss function value: 0.9

Action path: SOUTH, SOUTH

Statement: Given that in state 132 the agent chose SOUTH in what state would it chose NORTH?   
In state 332:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 3

Passenger destination: 0

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 3

Passenger destination: 0

State Path: 132, 132, 232, 252, 272, 172, 192

Loss function value: 0.75

Action path: SOUTH, EAST, EAST, NORTH, EAST

Statement: Given that in state 132 the agent chose SOUTH in what state would it chose WEST?   
In state 192:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 3

Passenger destination: 1

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 3

Passenger destination: 1

State Path: 133, 133, 233, 333

Loss function value: 0.9

Action path: SOUTH, SOUTH

Statement: Given that in state 133 the agent chose SOUTH in what state would it chose NORTH?   
In state 333:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 3

Passenger destination: 1

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 3

Passenger destination: 1

State Path: 133, 133, 233, 253, 273, 293

Loss function value: 0.8

Action path: SOUTH, EAST, EAST, EAST

Statement: Given that in state 133 the agent chose SOUTH in what state would it chose WEST?   
In state 293:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 3

Passenger destination: 2

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 3

Passenger destination: 2

State Path: 134, 134, 234, 334

Loss function value: 0.9

Action path: SOUTH, SOUTH

Statement: Given that in state 134 the agent chose SOUTH in what state would it chose NORTH?   
In state 334:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 3

Passenger destination: 2

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 3

Passenger destination: 2

State Path: 134, 134, 234, 254, 274, 294

Loss function value: 0.8

Action path: SOUTH, EAST, EAST, EAST

Statement: Given that in state 134 the agent chose SOUTH in what state would it chose WEST?   
In state 294:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 4

Passenger destination: 0

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 4

Passenger destination: 0

State Path: 136, 136, 236, 256, 156

Loss function value: 0.85

Action path: SOUTH, EAST, NORTH

Statement: Given that in state 136 the agent chose WEST in what state would it chose SOUTH?   
In state 156:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 4

Passenger destination: 0

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 4

Passenger destination: 0

State Path: 136, 136, 116

Loss function value: 0.95

Action path: WEST

Statement: Given that in state 136 the agent chose WEST in what state would it chose NORTH?   
In state 116:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 4

Passenger destination: 1

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 4

Passenger destination: 1

State Path: 137, 137, 237, 337

Loss function value: 0.9

Action path: SOUTH, SOUTH

Statement: Given that in state 137 the agent chose SOUTH in what state would it chose NORTH?   
In state 337:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 4

Passenger destination: 1

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

No counterfactual found for target WEST

Factual explanation:

Passenger location: 4

Passenger destination: 1

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

No counterfactual found for target WEST

Factual explanation:

Passenger location: 4

Passenger destination: 2

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 4

Passenger destination: 2

State Path: 138, 138, 118

Loss function value: 0.95

Action path: WEST

Statement: Given that in state 138 the agent chose WEST in what state would it chose SOUTH?   
In state 118:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 4

Passenger destination: 2

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 4

Passenger destination: 2

State Path: 138, 138, 238, 338

Loss function value: 0.9

Action path: SOUTH, SOUTH

Statement: Given that in state 138 the agent chose WEST in what state would it chose NORTH?   
In state 338:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 4

Passenger destination: 3

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 4

Passenger destination: 3

State Path: 139, 139, 239, 339

Loss function value: 0.9

Action path: SOUTH, SOUTH

Statement: Given that in state 139 the agent chose SOUTH in what state would it chose NORTH?   
In state 339:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 4

Passenger destination: 3

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 4

Passenger destination: 3

State Path: 139, 139, 239, 259, 279, 299, 199

Loss function value: 0.75

Action path: SOUTH, EAST, EAST, EAST, NORTH

Statement: Given that in state 139 the agent chose SOUTH in what state would it chose WEST?   
In state 199:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 0

Passenger destination: 1

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 0

Passenger destination: 1

State Path: 141, 141, 241, 341

Loss function value: 0.9

Action path: SOUTH, SOUTH

Statement: Given that in state 141 the agent chose SOUTH in what state would it chose NORTH?   
In state 341:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 0

Passenger destination: 1

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 4

Passenger destination: 1

State Path: 141, 141, 241, 221, 121, 101, 1, 17

Loss function value: 0.7

Action path: SOUTH, WEST, NORTH, WEST, NORTH, PICKUP

Statement: Given that in state 141 the agent chose SOUTH in what state would it chose EAST?   
In state 17 where the passanger location is now In Taxi:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 0

Passenger destination: 2

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 0

Passenger destination: 2

State Path: 142, 142, 242, 342, 442

Loss function value: 0.85

Action path: SOUTH, SOUTH, SOUTH

Statement: Given that in state 142 the agent chose SOUTH in what state would it chose NORTH?   
In state 442:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 0

Passenger destination: 2

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

No counterfactual found for target EAST

Factual explanation:

Passenger location: 0

Passenger destination: 2

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

No counterfactual found for target EAST

Factual explanation:

Passenger location: 0

Passenger destination: 3

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 0

Passenger destination: 3

State Path: 143, 143, 243, 343, 323

Loss function value: 0.85

Action path: SOUTH, SOUTH, WEST

Statement: Given that in state 143 the agent chose SOUTH in what state would it chose NORTH?   
In state 323:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 0

Passenger destination: 3

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 4

Passenger destination: 3

State Path: 143, 143, 243, 223, 123, 103, 3, 19

Loss function value: 0.7

Action path: SOUTH, WEST, NORTH, WEST, NORTH, PICKUP

Statement: Given that in state 143 the agent chose SOUTH in what state would it chose EAST?   
In state 19 where the passanger location is now In Taxi:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 1

Passenger destination: 0

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 1

Passenger destination: 0

State Path: 144, 144, 244, 224, 124

Loss function value: 0.85

Action path: SOUTH, WEST, NORTH

Statement: Given that in state 144 the agent chose EAST in what state would it chose SOUTH?   
In state 124:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 1

Passenger destination: 0

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 1

Passenger destination: 0

State Path: 144, 144, 244, 344

Loss function value: 0.9

Action path: SOUTH, SOUTH

Statement: Given that in state 144 the agent chose EAST in what state would it chose NORTH?   
In state 344:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 1

Passenger destination: 2

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 1

Passenger destination: 2

State Path: 146, 146, 246, 226, 126

Loss function value: 0.85

Action path: SOUTH, WEST, NORTH

Statement: Given that in state 146 the agent chose EAST in what state would it chose SOUTH?   
In state 126:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 1

Passenger destination: 2

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 1

Passenger destination: 2

State Path: 146, 146, 246, 346

Loss function value: 0.9

Action path: SOUTH, SOUTH

Statement: Given that in state 146 the agent chose EAST in what state would it chose NORTH?   
In state 346:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 1

Passenger destination: 3

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 1

Passenger destination: 3

State Path: 147, 147, 247, 227, 127

Loss function value: 0.85

Action path: SOUTH, WEST, NORTH

Statement: Given that in state 147 the agent chose EAST in what state would it chose SOUTH?   
In state 127:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 1

Passenger destination: 3

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 1

Passenger destination: 3

State Path: 147, 147, 247, 347

Loss function value: 0.9

Action path: SOUTH, SOUTH

Statement: Given that in state 147 the agent chose EAST in what state would it chose NORTH?   
In state 347:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 2

Passenger destination: 0

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 2

Passenger destination: 0

State Path: 148, 148, 248, 228, 328

Loss function value: 0.85

Action path: SOUTH, WEST, SOUTH

Statement: Given that in state 148 the agent chose SOUTH in what state would it chose NORTH?   
In state 328:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 2

Passenger destination: 0

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

No counterfactual found for target EAST

Factual explanation:

Passenger location: 2

Passenger destination: 0

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

No counterfactual found for target EAST

Factual explanation:

Passenger location: 2

Passenger destination: 1

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 2

Passenger destination: 1

State Path: 149, 149, 249, 349, 329

Loss function value: 0.85

Action path: SOUTH, SOUTH, WEST

Statement: Given that in state 149 the agent chose SOUTH in what state would it chose NORTH?   
In state 329:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 2

Passenger destination: 1

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 4

Passenger destination: 1

State Path: 149, 149, 249, 229, 209, 309, 409, 417, 317, 217

Loss function value: 0.6

Action path: SOUTH, WEST, WEST, SOUTH, SOUTH, PICKUP, NORTH, NORTH

Statement: Given that in state 149 the agent chose SOUTH in what state would it chose EAST?   
In state 217 where the passanger location is now In Taxi:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 2

Passenger destination: 3

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 2

Passenger destination: 3

State Path: 151, 151, 251, 351, 331

Loss function value: 0.85

Action path: SOUTH, SOUTH, WEST

Statement: Given that in state 151 the agent chose SOUTH in what state would it chose NORTH?   
In state 331:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 2

Passenger destination: 3

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 4

Passenger destination: 3

State Path: 151, 151, 251, 231, 211, 311, 411, 419, 319, 219

Loss function value: 0.6

Action path: SOUTH, WEST, WEST, SOUTH, SOUTH, PICKUP, NORTH, NORTH

Statement: Given that in state 151 the agent chose SOUTH in what state would it chose EAST?   
In state 219 where the passanger location is now In Taxi:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 3

Passenger destination: 0

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 3

Passenger destination: 0

State Path: 152, 152, 252, 352

Loss function value: 0.9

Action path: SOUTH, SOUTH

Statement: Given that in state 152 the agent chose SOUTH in what state would it chose NORTH?   
In state 352:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 3

Passenger destination: 0

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 3

Passenger destination: 0

State Path: 152, 152, 252

Loss function value: 0.95

Action path: SOUTH

Statement: Given that in state 152 the agent chose SOUTH in what state would it chose EAST?   
In state 252:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 3

Passenger destination: 1

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 3

Passenger destination: 1

State Path: 153, 153, 253, 353

Loss function value: 0.9

Action path: SOUTH, SOUTH

Statement: Given that in state 153 the agent chose SOUTH in what state would it chose NORTH?   
In state 353:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 3

Passenger destination: 1

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 3

Passenger destination: 1

State Path: 153, 153, 253

Loss function value: 0.95

Action path: SOUTH

Statement: Given that in state 153 the agent chose SOUTH in what state would it chose EAST?   
In state 253:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 3

Passenger destination: 2

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 3

Passenger destination: 2

State Path: 154, 154, 254, 354

Loss function value: 0.9

Action path: SOUTH, SOUTH

Statement: Given that in state 154 the agent chose SOUTH in what state would it chose NORTH?   
In state 354:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 3

Passenger destination: 2

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 3

Passenger destination: 2

State Path: 154, 154, 254

Loss function value: 0.95

Action path: SOUTH

Statement: Given that in state 154 the agent chose SOUTH in what state would it chose EAST?   
In state 254:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 4

Passenger destination: 0

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 4

Passenger destination: 0

State Path: 156, 156, 176, 276, 376

Loss function value: 0.85

Action path: EAST, SOUTH, SOUTH

Statement: Given that in state 156 the agent chose SOUTH in what state would it chose NORTH?   
In state 376:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 4

Passenger destination: 0

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

No counterfactual found for target EAST

Factual explanation:

Passenger location: 4

Passenger destination: 0

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

No counterfactual found for target EAST

Factual explanation:

Passenger location: 4

Passenger destination: 1

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 4

Passenger destination: 1

State Path: 157, 157, 57

Loss function value: 0.95

Action path: NORTH

Statement: Given that in state 157 the agent chose EAST in what state would it chose SOUTH?   
In state 57:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 4

Passenger destination: 1

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 4

Passenger destination: 1

State Path: 157, 157, 177, 197

Loss function value: 0.9

Action path: EAST, EAST

Statement: Given that in state 157 the agent chose EAST in what state would it chose NORTH?   
In state 197:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 4

Passenger destination: 2

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 4

Passenger destination: 2

State Path: 158, 158, 258, 358

Loss function value: 0.9

Action path: SOUTH, SOUTH

Statement: Given that in state 158 the agent chose SOUTH in what state would it chose NORTH?   
In state 358:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 4

Passenger destination: 2

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

No counterfactual found for target EAST

Factual explanation:

Passenger location: 4

Passenger destination: 2

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

No counterfactual found for target EAST

Factual explanation:

Passenger location: 4

Passenger destination: 3

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 4

Passenger destination: 3

State Path: 159, 159, 179

Loss function value: 0.95

Action path: EAST

Statement: Given that in state 159 the agent chose EAST in what state would it chose SOUTH?   
In state 179:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 4

Passenger destination: 3

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 4

Passenger destination: 3

State Path: 159, 159, 259, 359

Loss function value: 0.9

Action path: SOUTH, SOUTH

Statement: Given that in state 159 the agent chose EAST in what state would it chose NORTH?   
In state 359:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 0

Passenger destination: 1

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 0

Passenger destination: 1

State Path: 161, 161, 181

Loss function value: 0.95

Action path: EAST

Statement: Given that in state 161 the agent chose WEST in what state would it chose SOUTH?   
In state 181:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 0

Passenger destination: 1

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 0

Passenger destination: 1

State Path: 161, 161, 261, 361

Loss function value: 0.9

Action path: SOUTH, SOUTH

Statement: Given that in state 161 the agent chose WEST in what state would it chose NORTH?   
In state 361:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 0

Passenger destination: 1

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 4

Passenger destination: 1

State Path: 161, 161, 261, 241, 221, 121, 21, 1, 17

Loss function value: 0.65

Action path: SOUTH, WEST, WEST, NORTH, NORTH, WEST, PICKUP

Statement: Given that in state 161 the agent chose WEST in what state would it chose EAST?   
In state 17 where the passanger location is now In Taxi:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 0

Passenger destination: 2

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 0

Passenger destination: 2

State Path: 162, 162, 142

Loss function value: 0.95

Action path: WEST

Statement: Given that in state 162 the agent chose WEST in what state would it chose SOUTH?   
In state 142:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 0

Passenger destination: 2

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 0

Passenger destination: 2

State Path: 162, 162, 262, 362

Loss function value: 0.9

Action path: SOUTH, SOUTH

Statement: Given that in state 162 the agent chose WEST in what state would it chose NORTH?   
In state 362:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 0

Passenger destination: 2

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

No counterfactual found for target EAST

Factual explanation:

Passenger location: 0

Passenger destination: 2

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

No counterfactual found for target EAST

Factual explanation:

Passenger location: 0

Passenger destination: 3

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 0

Passenger destination: 3

State Path: 163, 163, 143

Loss function value: 0.95

Action path: WEST

Statement: Given that in state 163 the agent chose WEST in what state would it chose SOUTH?   
In state 143:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 0

Passenger destination: 3

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 0

Passenger destination: 3

State Path: 163, 163, 263, 363

Loss function value: 0.9

Action path: SOUTH, SOUTH

Statement: Given that in state 163 the agent chose WEST in what state would it chose NORTH?   
In state 363:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 0

Passenger destination: 3

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 4

Passenger destination: 3

State Path: 163, 163, 143, 243, 223, 123, 103, 3, 19

Loss function value: 0.65

Action path: WEST, SOUTH, WEST, NORTH, WEST, NORTH, PICKUP

Statement: Given that in state 163 the agent chose WEST in what state would it chose EAST?   
In state 19 where the passanger location is now In Taxi:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 1

Passenger destination: 0

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 1

Passenger destination: 0

State Path: 164, 164, 144, 244, 224, 124

Loss function value: 0.8

Action path: WEST, SOUTH, WEST, NORTH

Statement: Given that in state 164 the agent chose EAST in what state would it chose SOUTH?   
In state 124:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 1

Passenger destination: 0

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 1

Passenger destination: 0

State Path: 164, 164, 184

Loss function value: 0.95

Action path: EAST

Statement: Given that in state 164 the agent chose EAST in what state would it chose NORTH?   
In state 184:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 1

Passenger destination: 0

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 4

Passenger destination: 0

State Path: 164, 164, 184, 84, 96

Loss function value: 0.85

Action path: EAST, NORTH, PICKUP

Statement: Given that in state 164 the agent chose EAST in what state would it chose WEST?   
In state 96 where the passanger location is now In Taxi:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 1

Passenger destination: 2

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 1

Passenger destination: 2

State Path: 166, 166, 146, 246, 226, 126

Loss function value: 0.8

Action path: WEST, SOUTH, WEST, NORTH

Statement: Given that in state 166 the agent chose EAST in what state would it chose SOUTH?   
In state 126:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 1

Passenger destination: 2

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 1

Passenger destination: 2

State Path: 166, 166, 186

Loss function value: 0.95

Action path: EAST

Statement: Given that in state 166 the agent chose EAST in what state would it chose NORTH?   
In state 186:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 1

Passenger destination: 2

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 4

Passenger destination: 2

State Path: 166, 166, 66, 86, 98

Loss function value: 0.85

Action path: NORTH, EAST, PICKUP

Statement: Given that in state 166 the agent chose EAST in what state would it chose WEST?   
In state 98 where the passanger location is now In Taxi:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 1

Passenger destination: 3

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 4

Passenger destination: 3

State Path: 167, 167, 67, 87, 99, 79

Loss function value: 0.8

Action path: NORTH, EAST, PICKUP, WEST

Statement: Given that in state 167 the agent chose EAST in what state would it chose SOUTH?   
In state 79 where the passanger location is now In Taxi:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 1

Passenger destination: 3

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 1

Passenger destination: 3

State Path: 167, 167, 187

Loss function value: 0.95

Action path: EAST

Statement: Given that in state 167 the agent chose EAST in what state would it chose NORTH?   
In state 187:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 1

Passenger destination: 3

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 4

Passenger destination: 3

State Path: 167, 167, 187, 87, 99

Loss function value: 0.85

Action path: EAST, NORTH, PICKUP

Statement: Given that in state 167 the agent chose EAST in what state would it chose WEST?   
In state 99 where the passanger location is now In Taxi:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 2

Passenger destination: 0

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 2

Passenger destination: 0

State Path: 168, 168, 188

Loss function value: 0.95

Action path: EAST

Statement: Given that in state 168 the agent chose WEST in what state would it chose SOUTH?   
In state 188:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 2

Passenger destination: 0

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 2

Passenger destination: 0

State Path: 168, 168, 268, 368

Loss function value: 0.9

Action path: SOUTH, SOUTH

Statement: Given that in state 168 the agent chose WEST in what state would it chose NORTH?   
In state 368:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 2

Passenger destination: 0

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

No counterfactual found for target EAST

Factual explanation:

Passenger location: 2

Passenger destination: 0

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

No counterfactual found for target EAST

Factual explanation:

Passenger location: 2

Passenger destination: 1

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 2

Passenger destination: 1

State Path: 169, 169, 149

Loss function value: 0.95

Action path: WEST

Statement: Given that in state 169 the agent chose WEST in what state would it chose SOUTH?   
In state 149:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 2

Passenger destination: 1

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 2

Passenger destination: 1

State Path: 169, 169, 269, 369

Loss function value: 0.9

Action path: SOUTH, SOUTH

Statement: Given that in state 169 the agent chose WEST in what state would it chose NORTH?   
In state 369:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 2

Passenger destination: 1

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 4

Passenger destination: 1

State Path: 169, 169, 149, 249, 229, 209, 309, 409, 417, 317, 217

Loss function value: 0.55

Action path: WEST, SOUTH, WEST, WEST, SOUTH, SOUTH, PICKUP, NORTH, NORTH

Statement: Given that in state 169 the agent chose WEST in what state would it chose EAST?   
In state 217 where the passanger location is now In Taxi:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 2

Passenger destination: 3

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 2

Passenger destination: 3

State Path: 171, 171, 151

Loss function value: 0.95

Action path: WEST

Statement: Given that in state 171 the agent chose WEST in what state would it chose SOUTH?   
In state 151:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 2

Passenger destination: 3

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 2

Passenger destination: 3

State Path: 171, 171, 271, 371

Loss function value: 0.9

Action path: SOUTH, SOUTH

Statement: Given that in state 171 the agent chose WEST in what state would it chose NORTH?   
In state 371:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 2

Passenger destination: 3

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 4

Passenger destination: 3

State Path: 171, 171, 151, 251, 231, 211, 311, 411, 419, 319, 219

Loss function value: 0.55

Action path: WEST, SOUTH, WEST, WEST, SOUTH, SOUTH, PICKUP, NORTH, NORTH

Statement: Given that in state 171 the agent chose WEST in what state would it chose EAST?   
In state 219 where the passanger location is now In Taxi:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 3

Passenger destination: 0

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 3

Passenger destination: 0

State Path: 172, 172, 272, 252, 352

Loss function value: 0.85

Action path: SOUTH, WEST, SOUTH

Statement: Given that in state 172 the agent chose SOUTH in what state would it chose NORTH?   
In state 352:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 3

Passenger destination: 0

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 3

Passenger destination: 0

State Path: 172, 172, 72, 52

Loss function value: 0.9

Action path: NORTH, WEST

Statement: Given that in state 172 the agent chose SOUTH in what state would it chose EAST?   
In state 52:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 3

Passenger destination: 0

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 3

Passenger destination: 0

State Path: 172, 172, 192

Loss function value: 0.95

Action path: EAST

Statement: Given that in state 172 the agent chose SOUTH in what state would it chose WEST?   
In state 192:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 3

Passenger destination: 1

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 3

Passenger destination: 1

State Path: 173, 173, 153, 253, 353

Loss function value: 0.85

Action path: WEST, SOUTH, SOUTH

Statement: Given that in state 173 the agent chose SOUTH in what state would it chose NORTH?   
In state 353:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 3

Passenger destination: 1

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 3

Passenger destination: 1

State Path: 173, 173, 273, 253

Loss function value: 0.9

Action path: SOUTH, WEST

Statement: Given that in state 173 the agent chose SOUTH in what state would it chose EAST?   
In state 253:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 3

Passenger destination: 1

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 3

Passenger destination: 1

State Path: 173, 173, 193, 293

Loss function value: 0.9

Action path: EAST, SOUTH

Statement: Given that in state 173 the agent chose SOUTH in what state would it chose WEST?   
In state 293:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 3

Passenger destination: 2

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 3

Passenger destination: 2

State Path: 174, 174, 154, 254, 354

Loss function value: 0.85

Action path: WEST, SOUTH, SOUTH

Statement: Given that in state 174 the agent chose SOUTH in what state would it chose NORTH?   
In state 354:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 3

Passenger destination: 2

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 3

Passenger destination: 2

State Path: 174, 174, 154, 254

Loss function value: 0.9

Action path: WEST, SOUTH

Statement: Given that in state 174 the agent chose SOUTH in what state would it chose EAST?   
In state 254:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 3

Passenger destination: 2

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 3

Passenger destination: 2

State Path: 174, 174, 274, 294

Loss function value: 0.9

Action path: SOUTH, EAST

Statement: Given that in state 174 the agent chose SOUTH in what state would it chose WEST?   
In state 294:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 4

Passenger destination: 0

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 4

Passenger destination: 0

State Path: 176, 176, 156

Loss function value: 0.95

Action path: WEST

Statement: Given that in state 176 the agent chose WEST in what state would it chose SOUTH?   
In state 156:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 4

Passenger destination: 0

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 4

Passenger destination: 0

State Path: 176, 176, 276, 376

Loss function value: 0.9

Action path: SOUTH, SOUTH

Statement: Given that in state 176 the agent chose WEST in what state would it chose NORTH?   
In state 376:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 4

Passenger destination: 0

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

No counterfactual found for target EAST

Factual explanation:

Passenger location: 4

Passenger destination: 0

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

No counterfactual found for target EAST

Factual explanation:

Passenger location: 4

Passenger destination: 1

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 4

Passenger destination: 1

State Path: 177, 177, 77, 57

Loss function value: 0.9

Action path: NORTH, WEST

Statement: Given that in state 177 the agent chose EAST in what state would it chose SOUTH?   
In state 57:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 4

Passenger destination: 1

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 4

Passenger destination: 1

State Path: 177, 177, 197

Loss function value: 0.95

Action path: EAST

Statement: Given that in state 177 the agent chose EAST in what state would it chose NORTH?   
In state 197:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 4

Passenger destination: 1

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

No counterfactual found for target WEST

Factual explanation:

Passenger location: 4

Passenger destination: 1

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

No counterfactual found for target WEST

Factual explanation:

Passenger location: 4

Passenger destination: 2

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 4

Passenger destination: 2

State Path: 178, 178, 158

Loss function value: 0.95

Action path: WEST

Statement: Given that in state 178 the agent chose WEST in what state would it chose SOUTH?   
In state 158:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 4

Passenger destination: 2

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 4

Passenger destination: 2

State Path: 178, 178, 278, 378

Loss function value: 0.9

Action path: SOUTH, SOUTH

Statement: Given that in state 178 the agent chose WEST in what state would it chose NORTH?   
In state 378:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 4

Passenger destination: 2

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

No counterfactual found for target EAST

Factual explanation:

Passenger location: 4

Passenger destination: 2

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

No counterfactual found for target EAST

Factual explanation:

Passenger location: 4

Passenger destination: 3

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 4

Passenger destination: 3

State Path: 179, 179, 279, 259, 359

Loss function value: 0.85

Action path: SOUTH, WEST, SOUTH

Statement: Given that in state 179 the agent chose SOUTH in what state would it chose NORTH?   
In state 359:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 4

Passenger destination: 3

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 4

Passenger destination: 3

State Path: 179, 179, 159

Loss function value: 0.95

Action path: WEST

Statement: Given that in state 179 the agent chose SOUTH in what state would it chose EAST?   
In state 159:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 4

Passenger destination: 3

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 4

Passenger destination: 3

State Path: 179, 179, 199

Loss function value: 0.95

Action path: EAST

Statement: Given that in state 179 the agent chose SOUTH in what state would it chose WEST?   
In state 199:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 0

Passenger destination: 1

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 0

Passenger destination: 1

State Path: 181, 181, 281, 261, 361

Loss function value: 0.85

Action path: SOUTH, WEST, SOUTH

Statement: Given that in state 181 the agent chose SOUTH in what state would it chose NORTH?   
In state 361:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 0

Passenger destination: 1

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 0

Passenger destination: 1

State Path: 181, 181, 281

Loss function value: 0.95

Action path: SOUTH

Statement: Given that in state 181 the agent chose SOUTH in what state would it chose WEST?   
In state 281:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 0

Passenger destination: 2

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 0

Passenger destination: 2

State Path: 182, 182, 162, 142

Loss function value: 0.9

Action path: WEST, WEST

Statement: Given that in state 182 the agent chose WEST in what state would it chose SOUTH?   
In state 142:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 0

Passenger destination: 2

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 0

Passenger destination: 2

State Path: 182, 182, 282, 382, 482

Loss function value: 0.85

Action path: SOUTH, SOUTH, SOUTH

Statement: Given that in state 182 the agent chose WEST in what state would it chose NORTH?   
In state 482:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 0

Passenger destination: 3

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 0

Passenger destination: 3

State Path: 183, 183, 163, 143

Loss function value: 0.9

Action path: WEST, WEST

Statement: Given that in state 183 the agent chose WEST in what state would it chose SOUTH?   
In state 143:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 0

Passenger destination: 3

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 0

Passenger destination: 3

State Path: 183, 183, 283, 383

Loss function value: 0.9

Action path: SOUTH, SOUTH

Statement: Given that in state 183 the agent chose WEST in what state would it chose NORTH?   
In state 383:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 1

Passenger destination: 0

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 4

Passenger destination: 0

State Path: 184, 184, 84, 96, 76, 56

Loss function value: 0.8

Action path: NORTH, PICKUP, WEST, WEST

Statement: Given that in state 184 the agent chose NORTH in what state would it chose SOUTH?   
In state 56 where the passanger location is now In Taxi:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 1

Passenger destination: 0

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 4

Passenger destination: 0

State Path: 184, 184, 84, 96

Loss function value: 0.9

Action path: NORTH, PICKUP

Statement: Given that in state 184 the agent chose NORTH in what state would it chose WEST?   
In state 96 where the passanger location is now In Taxi:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 1

Passenger destination: 2

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 4

Passenger destination: 2

State Path: 186, 186, 86, 98, 78, 58

Loss function value: 0.8

Action path: NORTH, PICKUP, WEST, WEST

Statement: Given that in state 186 the agent chose NORTH in what state would it chose SOUTH?   
In state 58 where the passanger location is now In Taxi:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 1

Passenger destination: 2

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 4

Passenger destination: 2

State Path: 186, 186, 86, 98

Loss function value: 0.9

Action path: NORTH, PICKUP

Statement: Given that in state 186 the agent chose NORTH in what state would it chose WEST?   
In state 98 where the passanger location is now In Taxi:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 1

Passenger destination: 3

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 4

Passenger destination: 3

State Path: 187, 187, 87, 99, 79

Loss function value: 0.85

Action path: NORTH, PICKUP, WEST

Statement: Given that in state 187 the agent chose NORTH in what state would it chose SOUTH?   
In state 79 where the passanger location is now In Taxi:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 1

Passenger destination: 3

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 4

Passenger destination: 3

State Path: 187, 187, 87, 99

Loss function value: 0.9

Action path: NORTH, PICKUP

Statement: Given that in state 187 the agent chose NORTH in what state would it chose WEST?   
In state 99 where the passanger location is now In Taxi:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 2

Passenger destination: 0

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 2

Passenger destination: 0

State Path: 188, 188, 288, 388

Loss function value: 0.9

Action path: SOUTH, SOUTH

Statement: Given that in state 188 the agent chose SOUTH in what state would it chose NORTH?   
In state 388:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 2

Passenger destination: 0

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 2

Passenger destination: 0

State Path: 188, 188, 288

Loss function value: 0.95

Action path: SOUTH

Statement: Given that in state 188 the agent chose SOUTH in what state would it chose WEST?   
In state 288:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 2

Passenger destination: 1

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 2

Passenger destination: 1

State Path: 189, 189, 169, 149

Loss function value: 0.9

Action path: WEST, WEST

Statement: Given that in state 189 the agent chose WEST in what state would it chose SOUTH?   
In state 149:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 2

Passenger destination: 1

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 2

Passenger destination: 1

State Path: 189, 189, 169, 269, 369

Loss function value: 0.85

Action path: WEST, SOUTH, SOUTH

Statement: Given that in state 189 the agent chose WEST in what state would it chose NORTH?   
In state 369:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 2

Passenger destination: 3

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 2

Passenger destination: 3

State Path: 191, 191, 91

Loss function value: 0.95

Action path: NORTH

Statement: Given that in state 191 the agent chose WEST in what state would it chose SOUTH?   
In state 91:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 2

Passenger destination: 3

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 2

Passenger destination: 3

State Path: 191, 191, 291, 391

Loss function value: 0.9

Action path: SOUTH, SOUTH

Statement: Given that in state 191 the agent chose WEST in what state would it chose NORTH?   
In state 391:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 3

Passenger destination: 0

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 3

Passenger destination: 0

State Path: 192, 192, 172

Loss function value: 0.95

Action path: WEST

Statement: Given that in state 192 the agent chose WEST in what state would it chose SOUTH?   
In state 172:

+---------+

|R: | : :G|

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| | : | : |

|Y| : |B: |

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Factual explanation:

Passenger location: 3

Passenger destination: 0

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 3

Passenger destination: 0

State Path: 192, 192, 172, 152, 252, 352

Loss function value: 0.8

Action path: WEST, WEST, SOUTH, SOUTH

Statement: Given that in state 192 the agent chose WEST in what state would it chose NORTH?   
In state 352:

+---------+

|R: | : :G|

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| : : : : |

| | : | : |

|Y| : |B: |

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Factual explanation:

Passenger location: 3

Passenger destination: 1

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 3

Passenger destination: 1

State Path: 193, 193, 173, 153, 253, 353

Loss function value: 0.8

Action path: WEST, WEST, SOUTH, SOUTH

Statement: Given that in state 193 the agent chose SOUTH in what state would it chose NORTH?   
In state 353:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

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Factual explanation:

Passenger location: 3

Passenger destination: 1

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 3

Passenger destination: 1

State Path: 193, 193, 293

Loss function value: 0.95

Action path: SOUTH

Statement: Given that in state 193 the agent chose SOUTH in what state would it chose WEST?   
In state 293:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 3

Passenger destination: 2

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 3

Passenger destination: 2

State Path: 194, 194, 174, 274, 254, 354

Loss function value: 0.8

Action path: WEST, SOUTH, WEST, SOUTH

Statement: Given that in state 194 the agent chose SOUTH in what state would it chose NORTH?   
In state 354:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 3

Passenger destination: 2

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 3

Passenger destination: 2

State Path: 194, 194, 294

Loss function value: 0.95

Action path: SOUTH

Statement: Given that in state 194 the agent chose SOUTH in what state would it chose WEST?   
In state 294:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 4

Passenger destination: 0

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 4

Passenger destination: 0

State Path: 196, 196, 176, 156

Loss function value: 0.9

Action path: WEST, WEST

Statement: Given that in state 196 the agent chose WEST in what state would it chose SOUTH?   
In state 156:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 4

Passenger destination: 0

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 4

Passenger destination: 0

State Path: 196, 196, 296, 396, 376

Loss function value: 0.85

Action path: SOUTH, SOUTH, WEST

Statement: Given that in state 196 the agent chose WEST in what state would it chose NORTH?   
In state 376:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 4

Passenger destination: 1

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 4

Passenger destination: 1

State Path: 197, 197, 177, 77, 57

Loss function value: 0.85

Action path: WEST, NORTH, WEST

Statement: Given that in state 197 the agent chose NORTH in what state would it chose SOUTH?   
In state 57:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 4

Passenger destination: 1

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

No counterfactual found for target WEST

Factual explanation:

Passenger location: 4

Passenger destination: 1

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

No counterfactual found for target WEST

Factual explanation:

Passenger location: 4

Passenger destination: 2

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 4

Passenger destination: 2

State Path: 198, 198, 178, 158

Loss function value: 0.9

Action path: WEST, WEST

Statement: Given that in state 198 the agent chose WEST in what state would it chose SOUTH?   
In state 158:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 4

Passenger destination: 2

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 4

Passenger destination: 2

State Path: 198, 198, 298, 398

Loss function value: 0.9

Action path: SOUTH, SOUTH

Statement: Given that in state 198 the agent chose WEST in what state would it chose NORTH?   
In state 398:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 4

Passenger destination: 3

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 4

Passenger destination: 3

State Path: 199, 199, 299

Loss function value: 0.95

Action path: SOUTH

Statement: Given that in state 199 the agent chose WEST in what state would it chose SOUTH?   
In state 299:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 4

Passenger destination: 3

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 4

Passenger destination: 3

State Path: 199, 199, 179, 159, 259, 359

Loss function value: 0.8

Action path: WEST, WEST, SOUTH, SOUTH

Statement: Given that in state 199 the agent chose WEST in what state would it chose NORTH?   
In state 359:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 0

Passenger destination: 1

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 0

Passenger destination: 1

State Path: 201, 201, 221, 241, 141

Loss function value: 0.85

Action path: EAST, EAST, NORTH

Statement: Given that in state 201 the agent chose NORTH in what state would it chose SOUTH?   
In state 141:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 0

Passenger destination: 1

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 4

Passenger destination: 1

State Path: 201, 201, 101, 1, 17

Loss function value: 0.85

Action path: NORTH, NORTH, PICKUP

Statement: Given that in state 201 the agent chose NORTH in what state would it chose EAST?   
In state 17 where the passanger location is now In Taxi:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 0

Passenger destination: 2

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 4

Passenger destination: 2

State Path: 202, 202, 102, 2, 18

Loss function value: 0.85

Action path: NORTH, NORTH, PICKUP

Statement: Given that in state 202 the agent chose NORTH in what state would it chose SOUTH?   
In state 18 where the passanger location is now In Taxi:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 0

Passenger destination: 2

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

No counterfactual found for target EAST

Factual explanation:

Passenger location: 0

Passenger destination: 2

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

No counterfactual found for target EAST

Factual explanation:

Passenger location: 0

Passenger destination: 3

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 0

Passenger destination: 3

State Path: 203, 203, 223, 243, 143

Loss function value: 0.85

Action path: EAST, EAST, NORTH

Statement: Given that in state 203 the agent chose NORTH in what state would it chose SOUTH?   
In state 143:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 0

Passenger destination: 3

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 4

Passenger destination: 3

State Path: 203, 203, 103, 3, 19

Loss function value: 0.85

Action path: NORTH, NORTH, PICKUP

Statement: Given that in state 203 the agent chose NORTH in what state would it chose EAST?   
In state 19 where the passanger location is now In Taxi:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 1

Passenger destination: 0

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 1

Passenger destination: 0

State Path: 204, 204, 104, 124

Loss function value: 0.9

Action path: NORTH, EAST

Statement: Given that in state 204 the agent chose EAST in what state would it chose SOUTH?   
In state 124:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 1

Passenger destination: 0

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 1

Passenger destination: 0

State Path: 204, 204, 304

Loss function value: 0.95

Action path: SOUTH

Statement: Given that in state 204 the agent chose EAST in what state would it chose NORTH?   
In state 304:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 1

Passenger destination: 2

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 1

Passenger destination: 2

State Path: 206, 206, 106

Loss function value: 0.95

Action path: NORTH

Statement: Given that in state 206 the agent chose EAST in what state would it chose SOUTH?   
In state 106:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 1

Passenger destination: 2

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 1

Passenger destination: 2

State Path: 206, 206, 306

Loss function value: 0.95

Action path: SOUTH

Statement: Given that in state 206 the agent chose EAST in what state would it chose NORTH?   
In state 306:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 1

Passenger destination: 3

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 1

Passenger destination: 3

State Path: 207, 207, 107, 7

Loss function value: 0.9

Action path: NORTH, NORTH

Statement: Given that in state 207 the agent chose EAST in what state would it chose SOUTH?   
In state 7:

+---------+

|R: | : :G|

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| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 1

Passenger destination: 3

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 1

Passenger destination: 3

State Path: 207, 207, 307

Loss function value: 0.95

Action path: SOUTH

Statement: Given that in state 207 the agent chose EAST in what state would it chose NORTH?   
In state 307:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 2

Passenger destination: 0

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 2

Passenger destination: 0

State Path: 208, 208, 228, 328

Loss function value: 0.9

Action path: EAST, SOUTH

Statement: Given that in state 208 the agent chose SOUTH in what state would it chose NORTH?   
In state 328:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 2

Passenger destination: 0

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

No counterfactual found for target EAST

Factual explanation:

Passenger location: 2

Passenger destination: 0

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

No counterfactual found for target EAST

Factual explanation:

Passenger location: 2

Passenger destination: 1

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 2

Passenger destination: 1

State Path: 209, 209, 229, 329

Loss function value: 0.9

Action path: EAST, SOUTH

Statement: Given that in state 209 the agent chose SOUTH in what state would it chose NORTH?   
In state 329:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 2

Passenger destination: 1

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 4

Passenger destination: 1

State Path: 209, 209, 309, 409, 417, 317, 217

Loss function value: 0.75

Action path: SOUTH, SOUTH, PICKUP, NORTH, NORTH

Statement: Given that in state 209 the agent chose SOUTH in what state would it chose EAST?   
In state 217 where the passanger location is now In Taxi:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 2

Passenger destination: 3

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 2

Passenger destination: 3

State Path: 211, 211, 231, 331

Loss function value: 0.9

Action path: EAST, SOUTH

Statement: Given that in state 211 the agent chose SOUTH in what state would it chose NORTH?   
In state 331:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 2

Passenger destination: 3

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 4

Passenger destination: 3

State Path: 211, 211, 311, 411, 419, 319, 219

Loss function value: 0.75

Action path: SOUTH, SOUTH, PICKUP, NORTH, NORTH

Statement: Given that in state 211 the agent chose SOUTH in what state would it chose EAST?   
In state 219 where the passanger location is now In Taxi:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 3

Passenger destination: 0

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 3

Passenger destination: 0

State Path: 212, 212, 112, 12

Loss function value: 0.9

Action path: NORTH, NORTH

Statement: Given that in state 212 the agent chose EAST in what state would it chose SOUTH?   
In state 12:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 3

Passenger destination: 0

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 3

Passenger destination: 0

State Path: 212, 212, 312

Loss function value: 0.95

Action path: SOUTH

Statement: Given that in state 212 the agent chose EAST in what state would it chose NORTH?   
In state 312:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 3

Passenger destination: 1

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 3

Passenger destination: 1

State Path: 213, 213, 113

Loss function value: 0.95

Action path: NORTH

Statement: Given that in state 213 the agent chose EAST in what state would it chose SOUTH?   
In state 113:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 3

Passenger destination: 1

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 3

Passenger destination: 1

State Path: 213, 213, 313

Loss function value: 0.95

Action path: SOUTH

Statement: Given that in state 213 the agent chose EAST in what state would it chose NORTH?   
In state 313:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 3

Passenger destination: 2

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 3

Passenger destination: 2

State Path: 214, 214, 234, 134

Loss function value: 0.9

Action path: EAST, NORTH

Statement: Given that in state 214 the agent chose EAST in what state would it chose SOUTH?   
In state 134:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 3

Passenger destination: 2

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 3

Passenger destination: 2

State Path: 214, 214, 314

Loss function value: 0.95

Action path: SOUTH

Statement: Given that in state 214 the agent chose EAST in what state would it chose NORTH?   
In state 314:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 4

Passenger destination: 0

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 4

Passenger destination: 0

State Path: 216, 216, 236, 256, 156

Loss function value: 0.85

Action path: EAST, EAST, NORTH

Statement: Given that in state 216 the agent chose NORTH in what state would it chose SOUTH?   
In state 156:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 4

Passenger destination: 0

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

No counterfactual found for target EAST

Factual explanation:

Passenger location: 4

Passenger destination: 0

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

No counterfactual found for target EAST

Factual explanation:

Passenger location: 4

Passenger destination: 1

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 4

Passenger destination: 1

State Path: 217, 217, 117

Loss function value: 0.95

Action path: NORTH

Statement: Given that in state 217 the agent chose EAST in what state would it chose SOUTH?   
In state 117:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 4

Passenger destination: 1

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 4

Passenger destination: 1

State Path: 217, 217, 317

Loss function value: 0.95

Action path: SOUTH

Statement: Given that in state 217 the agent chose EAST in what state would it chose NORTH?   
In state 317:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 4

Passenger destination: 2

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 4

Passenger destination: 2

State Path: 218, 218, 238, 338

Loss function value: 0.9

Action path: EAST, SOUTH

Statement: Given that in state 218 the agent chose SOUTH in what state would it chose NORTH?   
In state 338:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 4

Passenger destination: 2

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

No counterfactual found for target EAST

Factual explanation:

Passenger location: 4

Passenger destination: 2

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

No counterfactual found for target EAST

Factual explanation:

Passenger location: 4

Passenger destination: 3

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 4

Passenger destination: 3

State Path: 219, 219, 239, 139

Loss function value: 0.9

Action path: EAST, NORTH

Statement: Given that in state 219 the agent chose EAST in what state would it chose SOUTH?   
In state 139:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 4

Passenger destination: 3

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 4

Passenger destination: 3

State Path: 219, 219, 319

Loss function value: 0.95

Action path: SOUTH

Statement: Given that in state 219 the agent chose EAST in what state would it chose NORTH?   
In state 319:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 0

Passenger destination: 1

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 0

Passenger destination: 1

State Path: 221, 221, 241, 141

Loss function value: 0.9

Action path: EAST, NORTH

Statement: Given that in state 221 the agent chose WEST in what state would it chose SOUTH?   
In state 141:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 0

Passenger destination: 1

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 0

Passenger destination: 1

State Path: 221, 221, 321

Loss function value: 0.95

Action path: SOUTH

Statement: Given that in state 221 the agent chose WEST in what state would it chose NORTH?   
In state 321:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 0

Passenger destination: 1

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 4

Passenger destination: 1

State Path: 221, 221, 121, 21, 1, 17

Loss function value: 0.8

Action path: NORTH, NORTH, WEST, PICKUP

Statement: Given that in state 221 the agent chose WEST in what state would it chose EAST?   
In state 17 where the passanger location is now In Taxi:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 0

Passenger destination: 2

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 0

Passenger destination: 2

State Path: 222, 222, 242, 142

Loss function value: 0.9

Action path: EAST, NORTH

Statement: Given that in state 222 the agent chose WEST in what state would it chose SOUTH?   
In state 142:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 0

Passenger destination: 2

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 0

Passenger destination: 2

State Path: 222, 222, 202

Loss function value: 0.95

Action path: WEST

Statement: Given that in state 222 the agent chose WEST in what state would it chose NORTH?   
In state 202:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 0

Passenger destination: 2

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

No counterfactual found for target EAST

Factual explanation:

Passenger location: 0

Passenger destination: 2

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

No counterfactual found for target EAST

Factual explanation:

Passenger location: 0

Passenger destination: 3

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 0

Passenger destination: 3

State Path: 223, 223, 243, 143

Loss function value: 0.9

Action path: EAST, NORTH

Statement: Given that in state 223 the agent chose WEST in what state would it chose SOUTH?   
In state 143:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 0

Passenger destination: 3

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 0

Passenger destination: 3

State Path: 223, 223, 203

Loss function value: 0.95

Action path: WEST

Statement: Given that in state 223 the agent chose WEST in what state would it chose NORTH?   
In state 203:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 0

Passenger destination: 3

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 4

Passenger destination: 3

State Path: 223, 223, 203, 103, 3, 19

Loss function value: 0.8

Action path: WEST, NORTH, NORTH, PICKUP

Statement: Given that in state 223 the agent chose WEST in what state would it chose EAST?   
In state 19 where the passanger location is now In Taxi:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 1

Passenger destination: 0

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 1

Passenger destination: 0

State Path: 224, 224, 124

Loss function value: 0.95

Action path: NORTH

Statement: Given that in state 224 the agent chose EAST in what state would it chose SOUTH?   
In state 124:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 1

Passenger destination: 0

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 1

Passenger destination: 0

State Path: 224, 224, 204, 304

Loss function value: 0.9

Action path: WEST, SOUTH

Statement: Given that in state 224 the agent chose EAST in what state would it chose NORTH?   
In state 304:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 1

Passenger destination: 0

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 4

Passenger destination: 0

State Path: 224, 224, 244, 264, 164, 184, 84, 96

Loss function value: 0.7

Action path: EAST, EAST, NORTH, EAST, NORTH, PICKUP

Statement: Given that in state 224 the agent chose EAST in what state would it chose WEST?   
In state 96 where the passanger location is now In Taxi:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 1

Passenger destination: 2

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 1

Passenger destination: 2

State Path: 226, 226, 126

Loss function value: 0.95

Action path: NORTH

Statement: Given that in state 226 the agent chose EAST in what state would it chose SOUTH?   
In state 126:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 1

Passenger destination: 2

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 1

Passenger destination: 2

State Path: 226, 226, 206, 306

Loss function value: 0.9

Action path: WEST, SOUTH

Statement: Given that in state 226 the agent chose EAST in what state would it chose NORTH?   
In state 306:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 1

Passenger destination: 2

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 4

Passenger destination: 2

State Path: 226, 226, 246, 266, 286, 186, 86, 98

Loss function value: 0.7

Action path: EAST, EAST, EAST, NORTH, NORTH, PICKUP

Statement: Given that in state 226 the agent chose EAST in what state would it chose WEST?   
In state 98 where the passanger location is now In Taxi:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 1

Passenger destination: 3

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 1

Passenger destination: 3

State Path: 227, 227, 127

Loss function value: 0.95

Action path: NORTH

Statement: Given that in state 227 the agent chose EAST in what state would it chose SOUTH?   
In state 127:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 1

Passenger destination: 3

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 1

Passenger destination: 3

State Path: 227, 227, 327, 347

Loss function value: 0.9

Action path: SOUTH, EAST

Statement: Given that in state 227 the agent chose EAST in what state would it chose NORTH?   
In state 347:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 1

Passenger destination: 3

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 4

Passenger destination: 3

State Path: 227, 227, 247, 147, 167, 67, 87, 99

Loss function value: 0.7

Action path: EAST, NORTH, EAST, NORTH, EAST, PICKUP

Statement: Given that in state 227 the agent chose EAST in what state would it chose WEST?   
In state 99 where the passanger location is now In Taxi:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 2

Passenger destination: 0

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 2

Passenger destination: 0

State Path: 228, 228, 208

Loss function value: 0.95

Action path: WEST

Statement: Given that in state 228 the agent chose WEST in what state would it chose SOUTH?   
In state 208:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 2

Passenger destination: 0

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 2

Passenger destination: 0

State Path: 228, 228, 328

Loss function value: 0.95

Action path: SOUTH

Statement: Given that in state 228 the agent chose WEST in what state would it chose NORTH?   
In state 328:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 2

Passenger destination: 0

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

No counterfactual found for target EAST

Factual explanation:

Passenger location: 2

Passenger destination: 0

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

No counterfactual found for target EAST

Factual explanation:

Passenger location: 2

Passenger destination: 1

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 2

Passenger destination: 1

State Path: 229, 229, 209

Loss function value: 0.95

Action path: WEST

Statement: Given that in state 229 the agent chose WEST in what state would it chose SOUTH?   
In state 209:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 2

Passenger destination: 1

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 2

Passenger destination: 1

State Path: 229, 229, 329

Loss function value: 0.95

Action path: SOUTH

Statement: Given that in state 229 the agent chose WEST in what state would it chose NORTH?   
In state 329:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 2

Passenger destination: 1

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 4

Passenger destination: 1

State Path: 229, 229, 209, 309, 409, 417, 317, 217

Loss function value: 0.7

Action path: WEST, SOUTH, SOUTH, PICKUP, NORTH, NORTH

Statement: Given that in state 229 the agent chose WEST in what state would it chose EAST?   
In state 217 where the passanger location is now In Taxi:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 2

Passenger destination: 3

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 2

Passenger destination: 3

State Path: 231, 231, 211

Loss function value: 0.95

Action path: WEST

Statement: Given that in state 231 the agent chose WEST in what state would it chose SOUTH?   
In state 211:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 2

Passenger destination: 3

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 2

Passenger destination: 3

State Path: 231, 231, 331

Loss function value: 0.95

Action path: SOUTH

Statement: Given that in state 231 the agent chose WEST in what state would it chose NORTH?   
In state 331:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 2

Passenger destination: 3

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 4

Passenger destination: 3

State Path: 231, 231, 211, 311, 411, 419, 319, 219

Loss function value: 0.7

Action path: WEST, SOUTH, SOUTH, PICKUP, NORTH, NORTH

Statement: Given that in state 231 the agent chose WEST in what state would it chose EAST?   
In state 219 where the passanger location is now In Taxi:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 3

Passenger destination: 0

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 3

Passenger destination: 0

State Path: 232, 232, 132

Loss function value: 0.95

Action path: NORTH

Statement: Given that in state 232 the agent chose EAST in what state would it chose SOUTH?   
In state 132:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 3

Passenger destination: 0

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 3

Passenger destination: 0

State Path: 232, 232, 332

Loss function value: 0.95

Action path: SOUTH

Statement: Given that in state 232 the agent chose EAST in what state would it chose NORTH?   
In state 332:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 3

Passenger destination: 0

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 3

Passenger destination: 0

State Path: 232, 232, 252, 272, 292, 392

Loss function value: 0.8

Action path: EAST, EAST, EAST, SOUTH

Statement: Given that in state 232 the agent chose EAST in what state would it chose WEST?   
In state 392:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 3

Passenger destination: 1

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 3

Passenger destination: 1

State Path: 233, 233, 133

Loss function value: 0.95

Action path: NORTH

Statement: Given that in state 233 the agent chose EAST in what state would it chose SOUTH?   
In state 133:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 3

Passenger destination: 1

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 3

Passenger destination: 1

State Path: 233, 233, 333

Loss function value: 0.95

Action path: SOUTH

Statement: Given that in state 233 the agent chose EAST in what state would it chose NORTH?   
In state 333:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 3

Passenger destination: 1

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 3

Passenger destination: 1

State Path: 233, 233, 253, 273, 293

Loss function value: 0.85

Action path: EAST, EAST, EAST

Statement: Given that in state 233 the agent chose EAST in what state would it chose WEST?   
In state 293:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

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Factual explanation:

Passenger location: 3

Passenger destination: 2

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 3

Passenger destination: 2

State Path: 234, 234, 134

Loss function value: 0.95

Action path: NORTH

Statement: Given that in state 234 the agent chose EAST in what state would it chose SOUTH?   
In state 134:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 3

Passenger destination: 2

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 3

Passenger destination: 2

State Path: 234, 234, 334

Loss function value: 0.95

Action path: SOUTH

Statement: Given that in state 234 the agent chose EAST in what state would it chose NORTH?   
In state 334:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 3

Passenger destination: 2

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 3

Passenger destination: 2

State Path: 234, 234, 254, 274, 294

Loss function value: 0.85

Action path: EAST, EAST, EAST

Statement: Given that in state 234 the agent chose EAST in what state would it chose WEST?   
In state 294:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 4

Passenger destination: 0

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 4

Passenger destination: 0

State Path: 236, 236, 256, 156

Loss function value: 0.9

Action path: EAST, NORTH

Statement: Given that in state 236 the agent chose WEST in what state would it chose SOUTH?   
In state 156:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 4

Passenger destination: 0

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 4

Passenger destination: 0

State Path: 236, 236, 216

Loss function value: 0.95

Action path: WEST

Statement: Given that in state 236 the agent chose WEST in what state would it chose NORTH?   
In state 216:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 4

Passenger destination: 0

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

No counterfactual found for target EAST

Factual explanation:

Passenger location: 4

Passenger destination: 0

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

No counterfactual found for target EAST

Factual explanation:

Passenger location: 4

Passenger destination: 1

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 4

Passenger destination: 1

State Path: 237, 237, 137

Loss function value: 0.95

Action path: NORTH

Statement: Given that in state 237 the agent chose EAST in what state would it chose SOUTH?   
In state 137:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 4

Passenger destination: 1

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 4

Passenger destination: 1

State Path: 237, 237, 337

Loss function value: 0.95

Action path: SOUTH

Statement: Given that in state 237 the agent chose EAST in what state would it chose NORTH?   
In state 337:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 4

Passenger destination: 1

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

No counterfactual found for target WEST

Factual explanation:

Passenger location: 4

Passenger destination: 1

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

No counterfactual found for target WEST

Factual explanation:

Passenger location: 4

Passenger destination: 2

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 4

Passenger destination: 2

State Path: 238, 238, 218

Loss function value: 0.95

Action path: WEST

Statement: Given that in state 238 the agent chose WEST in what state would it chose SOUTH?   
In state 218:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 4

Passenger destination: 2

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 4

Passenger destination: 2

State Path: 238, 238, 338

Loss function value: 0.95

Action path: SOUTH

Statement: Given that in state 238 the agent chose WEST in what state would it chose NORTH?   
In state 338:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 4

Passenger destination: 2

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

No counterfactual found for target EAST

Factual explanation:

Passenger location: 4

Passenger destination: 2

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

No counterfactual found for target EAST

Factual explanation:

Passenger location: 4

Passenger destination: 3

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 4

Passenger destination: 3

State Path: 239, 239, 139

Loss function value: 0.95

Action path: NORTH

Statement: Given that in state 239 the agent chose EAST in what state would it chose SOUTH?   
In state 139:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 4

Passenger destination: 3

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 4

Passenger destination: 3

State Path: 239, 239, 339

Loss function value: 0.95

Action path: SOUTH

Statement: Given that in state 239 the agent chose EAST in what state would it chose NORTH?   
In state 339:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 4

Passenger destination: 3

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 4

Passenger destination: 3

State Path: 239, 239, 259, 279, 179, 199

Loss function value: 0.8

Action path: EAST, EAST, NORTH, EAST

Statement: Given that in state 239 the agent chose EAST in what state would it chose WEST?   
In state 199:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 0

Passenger destination: 1

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 0

Passenger destination: 1

State Path: 241, 241, 141

Loss function value: 0.95

Action path: NORTH

Statement: Given that in state 241 the agent chose WEST in what state would it chose SOUTH?   
In state 141:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 0

Passenger destination: 1

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 0

Passenger destination: 1

State Path: 241, 241, 341

Loss function value: 0.95

Action path: SOUTH

Statement: Given that in state 241 the agent chose WEST in what state would it chose NORTH?   
In state 341:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 0

Passenger destination: 1

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 4

Passenger destination: 1

State Path: 241, 241, 221, 121, 21, 1, 17

Loss function value: 0.75

Action path: WEST, NORTH, NORTH, WEST, PICKUP

Statement: Given that in state 241 the agent chose WEST in what state would it chose EAST?   
In state 17 where the passanger location is now In Taxi:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 0

Passenger destination: 2

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 0

Passenger destination: 2

State Path: 242, 242, 142

Loss function value: 0.95

Action path: NORTH

Statement: Given that in state 242 the agent chose WEST in what state would it chose SOUTH?   
In state 142:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 0

Passenger destination: 2

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 0

Passenger destination: 2

State Path: 242, 242, 342, 442

Loss function value: 0.9

Action path: SOUTH, SOUTH

Statement: Given that in state 242 the agent chose WEST in what state would it chose NORTH?   
In state 442:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 0

Passenger destination: 2

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

No counterfactual found for target EAST

Factual explanation:

Passenger location: 0

Passenger destination: 2

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

No counterfactual found for target EAST

Factual explanation:

Passenger location: 0

Passenger destination: 3

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 0

Passenger destination: 3

State Path: 243, 243, 143

Loss function value: 0.95

Action path: NORTH

Statement: Given that in state 243 the agent chose WEST in what state would it chose SOUTH?   
In state 143:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 0

Passenger destination: 3

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 0

Passenger destination: 3

State Path: 243, 243, 223, 203

Loss function value: 0.9

Action path: WEST, WEST

Statement: Given that in state 243 the agent chose WEST in what state would it chose NORTH?   
In state 203:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 0

Passenger destination: 3

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 4

Passenger destination: 3

State Path: 243, 243, 223, 123, 103, 3, 19

Loss function value: 0.75

Action path: WEST, NORTH, WEST, NORTH, PICKUP

Statement: Given that in state 243 the agent chose WEST in what state would it chose EAST?   
In state 19 where the passanger location is now In Taxi:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 1

Passenger destination: 0

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 1

Passenger destination: 0

State Path: 244, 244, 224, 124

Loss function value: 0.9

Action path: WEST, NORTH

Statement: Given that in state 244 the agent chose EAST in what state would it chose SOUTH?   
In state 124:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 1

Passenger destination: 0

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 1

Passenger destination: 0

State Path: 244, 244, 344

Loss function value: 0.95

Action path: SOUTH

Statement: Given that in state 244 the agent chose EAST in what state would it chose NORTH?   
In state 344:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 1

Passenger destination: 0

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 4

Passenger destination: 0

State Path: 244, 244, 264, 164, 184, 84, 96

Loss function value: 0.75

Action path: EAST, NORTH, EAST, NORTH, PICKUP

Statement: Given that in state 244 the agent chose EAST in what state would it chose WEST?   
In state 96 where the passanger location is now In Taxi:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 1

Passenger destination: 2

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 1

Passenger destination: 2

State Path: 246, 246, 226, 126

Loss function value: 0.9

Action path: WEST, NORTH

Statement: Given that in state 246 the agent chose EAST in what state would it chose SOUTH?   
In state 126:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 1

Passenger destination: 2

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 1

Passenger destination: 2

State Path: 246, 246, 346

Loss function value: 0.95

Action path: SOUTH

Statement: Given that in state 246 the agent chose EAST in what state would it chose NORTH?   
In state 346:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 1

Passenger destination: 2

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 4

Passenger destination: 2

State Path: 246, 246, 146, 166, 186, 86, 98

Loss function value: 0.75

Action path: NORTH, EAST, EAST, NORTH, PICKUP

Statement: Given that in state 246 the agent chose EAST in what state would it chose WEST?   
In state 98 where the passanger location is now In Taxi:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 1

Passenger destination: 3

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 1

Passenger destination: 3

State Path: 247, 247, 227, 127

Loss function value: 0.9

Action path: WEST, NORTH

Statement: Given that in state 247 the agent chose EAST in what state would it chose SOUTH?   
In state 127:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 1

Passenger destination: 3

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 1

Passenger destination: 3

State Path: 247, 247, 347

Loss function value: 0.95

Action path: SOUTH

Statement: Given that in state 247 the agent chose EAST in what state would it chose NORTH?   
In state 347:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 1

Passenger destination: 3

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 4

Passenger destination: 3

State Path: 247, 247, 267, 287, 187, 87, 99

Loss function value: 0.75

Action path: EAST, EAST, NORTH, NORTH, PICKUP

Statement: Given that in state 247 the agent chose EAST in what state would it chose WEST?   
In state 99 where the passanger location is now In Taxi:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 2

Passenger destination: 0

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 2

Passenger destination: 0

State Path: 248, 248, 148

Loss function value: 0.95

Action path: NORTH

Statement: Given that in state 248 the agent chose WEST in what state would it chose SOUTH?   
In state 148:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 2

Passenger destination: 0

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 2

Passenger destination: 0

State Path: 248, 248, 228, 328

Loss function value: 0.9

Action path: WEST, SOUTH

Statement: Given that in state 248 the agent chose WEST in what state would it chose NORTH?   
In state 328:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 2

Passenger destination: 0

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

No counterfactual found for target EAST

Factual explanation:

Passenger location: 2

Passenger destination: 0

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

No counterfactual found for target EAST

Factual explanation:

Passenger location: 2

Passenger destination: 1

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 2

Passenger destination: 1

State Path: 249, 249, 149

Loss function value: 0.95

Action path: NORTH

Statement: Given that in state 249 the agent chose WEST in what state would it chose SOUTH?   
In state 149:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 2

Passenger destination: 1

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 2

Passenger destination: 1

State Path: 249, 249, 229, 329

Loss function value: 0.9

Action path: WEST, SOUTH

Statement: Given that in state 249 the agent chose WEST in what state would it chose NORTH?   
In state 329:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 2

Passenger destination: 1

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 4

Passenger destination: 1

State Path: 249, 249, 229, 209, 309, 409, 417, 317, 217

Loss function value: 0.65

Action path: WEST, WEST, SOUTH, SOUTH, PICKUP, NORTH, NORTH

Statement: Given that in state 249 the agent chose WEST in what state would it chose EAST?   
In state 217 where the passanger location is now In Taxi:

+---------+

|R: | : :G|

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| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 2

Passenger destination: 3

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 2

Passenger destination: 3

State Path: 251, 251, 151

Loss function value: 0.95

Action path: NORTH

Statement: Given that in state 251 the agent chose WEST in what state would it chose SOUTH?   
In state 151:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

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Factual explanation:

Passenger location: 2

Passenger destination: 3

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 2

Passenger destination: 3

State Path: 251, 251, 231, 331

Loss function value: 0.9

Action path: WEST, SOUTH

Statement: Given that in state 251 the agent chose WEST in what state would it chose NORTH?   
In state 331:

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|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

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Factual explanation:

Passenger location: 2

Passenger destination: 3

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

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Counterfactual explanation:

Passenger location: 4

Passenger destination: 3

State Path: 251, 251, 231, 211, 311, 411, 419, 319, 219

Loss function value: 0.65

Action path: WEST, WEST, SOUTH, SOUTH, PICKUP, NORTH, NORTH

Statement: Given that in state 251 the agent chose WEST in what state would it chose EAST?   
In state 219 where the passanger location is now In Taxi:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 3

Passenger destination: 0

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 3

Passenger destination: 0

State Path: 252, 252, 152

Loss function value: 0.95

Action path: NORTH

Statement: Given that in state 252 the agent chose EAST in what state would it chose SOUTH?   
In state 152:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 3

Passenger destination: 0

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 3

Passenger destination: 0

State Path: 252, 252, 352

Loss function value: 0.95

Action path: SOUTH

Statement: Given that in state 252 the agent chose EAST in what state would it chose NORTH?   
In state 352:

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|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 3

Passenger destination: 0

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 3

Passenger destination: 0

State Path: 252, 252, 272, 292, 392

Loss function value: 0.85

Action path: EAST, EAST, SOUTH

Statement: Given that in state 252 the agent chose EAST in what state would it chose WEST?   
In state 392:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 3

Passenger destination: 1

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 3

Passenger destination: 1

State Path: 253, 253, 273

Loss function value: 0.95

Action path: EAST

Statement: Given that in state 253 the agent chose EAST in what state would it chose SOUTH?   
In state 273:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 3

Passenger destination: 1

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 3

Passenger destination: 1

State Path: 253, 253, 353

Loss function value: 0.95

Action path: SOUTH

Statement: Given that in state 253 the agent chose EAST in what state would it chose NORTH?   
In state 353:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 3

Passenger destination: 1

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 3

Passenger destination: 1

State Path: 253, 253, 273, 293

Loss function value: 0.9

Action path: EAST, EAST

Statement: Given that in state 253 the agent chose EAST in what state would it chose WEST?   
In state 293:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 3

Passenger destination: 2

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 3

Passenger destination: 2

State Path: 254, 254, 154

Loss function value: 0.95

Action path: NORTH

Statement: Given that in state 254 the agent chose EAST in what state would it chose SOUTH?   
In state 154:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 3

Passenger destination: 2

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 3

Passenger destination: 2

State Path: 254, 254, 354

Loss function value: 0.95

Action path: SOUTH

Statement: Given that in state 254 the agent chose EAST in what state would it chose NORTH?   
In state 354:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 3

Passenger destination: 2

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 3

Passenger destination: 2

State Path: 254, 254, 274, 294

Loss function value: 0.9

Action path: EAST, EAST

Statement: Given that in state 254 the agent chose EAST in what state would it chose WEST?   
In state 294:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 4

Passenger destination: 0

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 4

Passenger destination: 0

State Path: 256, 256, 156

Loss function value: 0.95

Action path: NORTH

Statement: Given that in state 256 the agent chose WEST in what state would it chose SOUTH?   
In state 156:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 4

Passenger destination: 0

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 4

Passenger destination: 0

State Path: 256, 256, 356, 456

Loss function value: 0.9

Action path: SOUTH, SOUTH

Statement: Given that in state 256 the agent chose WEST in what state would it chose NORTH?   
In state 456:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 4

Passenger destination: 0

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

No counterfactual found for target EAST

Factual explanation:

Passenger location: 4

Passenger destination: 0

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

No counterfactual found for target EAST

Factual explanation:

Passenger location: 4

Passenger destination: 1

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 4

Passenger destination: 1

State Path: 257, 257, 157, 57

Loss function value: 0.9

Action path: NORTH, NORTH

Statement: Given that in state 257 the agent chose EAST in what state would it chose SOUTH?   
In state 57:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 4

Passenger destination: 1

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 4

Passenger destination: 1

State Path: 257, 257, 357

Loss function value: 0.95

Action path: SOUTH

Statement: Given that in state 257 the agent chose EAST in what state would it chose NORTH?   
In state 357:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 4

Passenger destination: 1

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

No counterfactual found for target WEST

Factual explanation:

Passenger location: 4

Passenger destination: 1

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

No counterfactual found for target WEST

Factual explanation:

Passenger location: 4

Passenger destination: 2

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 4

Passenger destination: 2

State Path: 258, 258, 158

Loss function value: 0.95

Action path: NORTH

Statement: Given that in state 258 the agent chose WEST in what state would it chose SOUTH?   
In state 158:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 4

Passenger destination: 2

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 4

Passenger destination: 2

State Path: 258, 258, 358

Loss function value: 0.95

Action path: SOUTH

Statement: Given that in state 258 the agent chose WEST in what state would it chose NORTH?   
In state 358:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 4

Passenger destination: 2

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

No counterfactual found for target EAST

Factual explanation:

Passenger location: 4

Passenger destination: 2

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

No counterfactual found for target EAST

Factual explanation:

Passenger location: 4

Passenger destination: 3

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 4

Passenger destination: 3

State Path: 259, 259, 279

Loss function value: 0.95

Action path: EAST

Statement: Given that in state 259 the agent chose EAST in what state would it chose SOUTH?   
In state 279:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 4

Passenger destination: 3

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 4

Passenger destination: 3

State Path: 259, 259, 359

Loss function value: 0.95

Action path: SOUTH

Statement: Given that in state 259 the agent chose EAST in what state would it chose NORTH?   
In state 359:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 4

Passenger destination: 3

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 4

Passenger destination: 3

State Path: 259, 259, 159, 179, 199

Loss function value: 0.85

Action path: NORTH, EAST, EAST

Statement: Given that in state 259 the agent chose EAST in what state would it chose WEST?   
In state 199:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 0

Passenger destination: 1

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 0

Passenger destination: 1

State Path: 261, 261, 161, 141

Loss function value: 0.9

Action path: NORTH, WEST

Statement: Given that in state 261 the agent chose WEST in what state would it chose SOUTH?   
In state 141:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 0

Passenger destination: 1

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 0

Passenger destination: 1

State Path: 261, 261, 361

Loss function value: 0.95

Action path: SOUTH

Statement: Given that in state 261 the agent chose WEST in what state would it chose NORTH?   
In state 361:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 0

Passenger destination: 1

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 4

Passenger destination: 1

State Path: 261, 261, 241, 221, 121, 21, 1, 17

Loss function value: 0.7

Action path: WEST, WEST, NORTH, NORTH, WEST, PICKUP

Statement: Given that in state 261 the agent chose WEST in what state would it chose EAST?   
In state 17 where the passanger location is now In Taxi:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 0

Passenger destination: 2

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 0

Passenger destination: 2

State Path: 262, 262, 162, 62

Loss function value: 0.9

Action path: NORTH, NORTH

Statement: Given that in state 262 the agent chose WEST in what state would it chose SOUTH?   
In state 62:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 0

Passenger destination: 2

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 0

Passenger destination: 2

State Path: 262, 262, 362

Loss function value: 0.95

Action path: SOUTH

Statement: Given that in state 262 the agent chose WEST in what state would it chose NORTH?   
In state 362:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 0

Passenger destination: 2

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

No counterfactual found for target EAST

Factual explanation:

Passenger location: 0

Passenger destination: 2

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

No counterfactual found for target EAST

Factual explanation:

Passenger location: 0

Passenger destination: 3

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 0

Passenger destination: 3

State Path: 263, 263, 243, 143

Loss function value: 0.9

Action path: WEST, NORTH

Statement: Given that in state 263 the agent chose WEST in what state would it chose SOUTH?   
In state 143:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 0

Passenger destination: 3

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 0

Passenger destination: 3

State Path: 263, 263, 363

Loss function value: 0.95

Action path: SOUTH

Statement: Given that in state 263 the agent chose WEST in what state would it chose NORTH?   
In state 363:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 0

Passenger destination: 3

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 4

Passenger destination: 3

State Path: 263, 263, 243, 223, 123, 23, 3, 19

Loss function value: 0.7

Action path: WEST, WEST, NORTH, NORTH, WEST, PICKUP

Statement: Given that in state 263 the agent chose WEST in what state would it chose EAST?   
In state 19 where the passanger location is now In Taxi:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 1

Passenger destination: 0

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 1

Passenger destination: 0

State Path: 264, 264, 244, 224, 124

Loss function value: 0.85

Action path: WEST, WEST, NORTH

Statement: Given that in state 264 the agent chose EAST in what state would it chose SOUTH?   
In state 124:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 1

Passenger destination: 0

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 1

Passenger destination: 0

State Path: 264, 264, 284

Loss function value: 0.95

Action path: EAST

Statement: Given that in state 264 the agent chose EAST in what state would it chose NORTH?   
In state 284:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 1

Passenger destination: 0

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 4

Passenger destination: 0

State Path: 264, 264, 164, 64, 84, 96

Loss function value: 0.8

Action path: NORTH, NORTH, EAST, PICKUP

Statement: Given that in state 264 the agent chose EAST in what state would it chose WEST?   
In state 96 where the passanger location is now In Taxi:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 1

Passenger destination: 2

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 1

Passenger destination: 2

State Path: 266, 266, 246, 226, 126

Loss function value: 0.85

Action path: WEST, WEST, NORTH

Statement: Given that in state 266 the agent chose EAST in what state would it chose SOUTH?   
In state 126:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 1

Passenger destination: 2

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 1

Passenger destination: 2

State Path: 266, 266, 286

Loss function value: 0.95

Action path: EAST

Statement: Given that in state 266 the agent chose EAST in what state would it chose NORTH?   
In state 286:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 1

Passenger destination: 2

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 4

Passenger destination: 2

State Path: 266, 266, 286, 186, 86, 98

Loss function value: 0.8

Action path: EAST, NORTH, NORTH, PICKUP

Statement: Given that in state 266 the agent chose EAST in what state would it chose WEST?   
In state 98 where the passanger location is now In Taxi:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 1

Passenger destination: 3

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 1

Passenger destination: 3

State Path: 267, 267, 247, 227, 127

Loss function value: 0.85

Action path: WEST, WEST, NORTH

Statement: Given that in state 267 the agent chose EAST in what state would it chose SOUTH?   
In state 127:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 1

Passenger destination: 3

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 1

Passenger destination: 3

State Path: 267, 267, 367

Loss function value: 0.95

Action path: SOUTH

Statement: Given that in state 267 the agent chose EAST in what state would it chose NORTH?   
In state 367:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 1

Passenger destination: 3

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 4

Passenger destination: 3

State Path: 267, 267, 167, 187, 87, 99

Loss function value: 0.8

Action path: NORTH, EAST, NORTH, PICKUP

Statement: Given that in state 267 the agent chose EAST in what state would it chose WEST?   
In state 99 where the passanger location is now In Taxi:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 2

Passenger destination: 0

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 2

Passenger destination: 0

State Path: 268, 268, 288, 188

Loss function value: 0.9

Action path: EAST, NORTH

Statement: Given that in state 268 the agent chose WEST in what state would it chose SOUTH?   
In state 188:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 2

Passenger destination: 0

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 2

Passenger destination: 0

State Path: 268, 268, 368

Loss function value: 0.95

Action path: SOUTH

Statement: Given that in state 268 the agent chose WEST in what state would it chose NORTH?   
In state 368:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 2

Passenger destination: 0

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

No counterfactual found for target EAST

Factual explanation:

Passenger location: 2

Passenger destination: 0

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

No counterfactual found for target EAST

Factual explanation:

Passenger location: 2

Passenger destination: 1

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 2

Passenger destination: 1

State Path: 269, 269, 169, 149

Loss function value: 0.9

Action path: NORTH, WEST

Statement: Given that in state 269 the agent chose WEST in what state would it chose SOUTH?   
In state 149:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 2

Passenger destination: 1

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 2

Passenger destination: 1

State Path: 269, 269, 369

Loss function value: 0.95

Action path: SOUTH

Statement: Given that in state 269 the agent chose WEST in what state would it chose NORTH?   
In state 369:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 2

Passenger destination: 1

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 4

Passenger destination: 1

State Path: 269, 269, 249, 229, 209, 309, 409, 417, 317, 217

Loss function value: 0.6

Action path: WEST, WEST, WEST, SOUTH, SOUTH, PICKUP, NORTH, NORTH

Statement: Given that in state 269 the agent chose WEST in what state would it chose EAST?   
In state 217 where the passanger location is now In Taxi:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 2

Passenger destination: 3

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 2

Passenger destination: 3

State Path: 271, 271, 251, 151

Loss function value: 0.9

Action path: WEST, NORTH

Statement: Given that in state 271 the agent chose WEST in what state would it chose SOUTH?   
In state 151:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 2

Passenger destination: 3

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 2

Passenger destination: 3

State Path: 271, 271, 371

Loss function value: 0.95

Action path: SOUTH

Statement: Given that in state 271 the agent chose WEST in what state would it chose NORTH?   
In state 371:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 2

Passenger destination: 3

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 4

Passenger destination: 3

State Path: 271, 271, 251, 231, 211, 311, 411, 419, 319, 219

Loss function value: 0.6

Action path: WEST, WEST, WEST, SOUTH, SOUTH, PICKUP, NORTH, NORTH

Statement: Given that in state 271 the agent chose WEST in what state would it chose EAST?   
In state 219 where the passanger location is now In Taxi:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 3

Passenger destination: 0

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 3

Passenger destination: 0

State Path: 272, 272, 252, 352

Loss function value: 0.9

Action path: WEST, SOUTH

Statement: Given that in state 272 the agent chose SOUTH in what state would it chose NORTH?   
In state 352:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 3

Passenger destination: 0

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 3

Passenger destination: 0

State Path: 272, 272, 252

Loss function value: 0.95

Action path: WEST

Statement: Given that in state 272 the agent chose SOUTH in what state would it chose EAST?   
In state 252:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 3

Passenger destination: 0

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 3

Passenger destination: 0

State Path: 272, 272, 292, 392

Loss function value: 0.9

Action path: EAST, SOUTH

Statement: Given that in state 272 the agent chose SOUTH in what state would it chose WEST?   
In state 392:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 3

Passenger destination: 1

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 3

Passenger destination: 1

State Path: 273, 273, 253, 353

Loss function value: 0.9

Action path: WEST, SOUTH

Statement: Given that in state 273 the agent chose SOUTH in what state would it chose NORTH?   
In state 353:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 3

Passenger destination: 1

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 3

Passenger destination: 1

State Path: 273, 273, 253

Loss function value: 0.95

Action path: WEST

Statement: Given that in state 273 the agent chose SOUTH in what state would it chose EAST?   
In state 253:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 3

Passenger destination: 1

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 3

Passenger destination: 1

State Path: 273, 273, 293

Loss function value: 0.95

Action path: EAST

Statement: Given that in state 273 the agent chose SOUTH in what state would it chose WEST?   
In state 293:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 3

Passenger destination: 2

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 3

Passenger destination: 2

State Path: 274, 274, 254, 354

Loss function value: 0.9

Action path: WEST, SOUTH

Statement: Given that in state 274 the agent chose SOUTH in what state would it chose NORTH?   
In state 354:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 3

Passenger destination: 2

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 3

Passenger destination: 2

State Path: 274, 274, 254

Loss function value: 0.95

Action path: WEST

Statement: Given that in state 274 the agent chose SOUTH in what state would it chose EAST?   
In state 254:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 3

Passenger destination: 2

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 3

Passenger destination: 2

State Path: 274, 274, 294

Loss function value: 0.95

Action path: EAST

Statement: Given that in state 274 the agent chose SOUTH in what state would it chose WEST?   
In state 294:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 4

Passenger destination: 0

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 4

Passenger destination: 0

State Path: 276, 276, 256, 156

Loss function value: 0.9

Action path: WEST, NORTH

Statement: Given that in state 276 the agent chose WEST in what state would it chose SOUTH?   
In state 156:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 4

Passenger destination: 0

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 4

Passenger destination: 0

State Path: 276, 276, 376

Loss function value: 0.95

Action path: SOUTH

Statement: Given that in state 276 the agent chose WEST in what state would it chose NORTH?   
In state 376:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 4

Passenger destination: 0

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

No counterfactual found for target EAST

Factual explanation:

Passenger location: 4

Passenger destination: 0

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

No counterfactual found for target EAST

Factual explanation:

Passenger location: 4

Passenger destination: 1

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 4

Passenger destination: 1

State Path: 277, 277, 257, 157, 57

Loss function value: 0.85

Action path: WEST, NORTH, NORTH

Statement: Given that in state 277 the agent chose EAST in what state would it chose SOUTH?   
In state 57:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 4

Passenger destination: 1

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 4

Passenger destination: 1

State Path: 277, 277, 297

Loss function value: 0.95

Action path: EAST

Statement: Given that in state 277 the agent chose EAST in what state would it chose NORTH?   
In state 297:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 4

Passenger destination: 1

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

No counterfactual found for target WEST

Factual explanation:

Passenger location: 4

Passenger destination: 1

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

No counterfactual found for target WEST

Factual explanation:

Passenger location: 4

Passenger destination: 2

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 4

Passenger destination: 2

State Path: 278, 278, 178, 158

Loss function value: 0.9

Action path: NORTH, WEST

Statement: Given that in state 278 the agent chose WEST in what state would it chose SOUTH?   
In state 158:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 4

Passenger destination: 2

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 4

Passenger destination: 2

State Path: 278, 278, 378

Loss function value: 0.95

Action path: SOUTH

Statement: Given that in state 278 the agent chose WEST in what state would it chose NORTH?   
In state 378:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 4

Passenger destination: 2

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

No counterfactual found for target EAST

Factual explanation:

Passenger location: 4

Passenger destination: 2

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

No counterfactual found for target EAST

Factual explanation:

Passenger location: 4

Passenger destination: 3

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 4

Passenger destination: 3

State Path: 279, 279, 259, 359

Loss function value: 0.9

Action path: WEST, SOUTH

Statement: Given that in state 279 the agent chose SOUTH in what state would it chose NORTH?   
In state 359:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 4

Passenger destination: 3

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 4

Passenger destination: 3

State Path: 279, 279, 259

Loss function value: 0.95

Action path: WEST

Statement: Given that in state 279 the agent chose SOUTH in what state would it chose EAST?   
In state 259:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 4

Passenger destination: 3

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 4

Passenger destination: 3

State Path: 279, 279, 179, 199

Loss function value: 0.9

Action path: NORTH, EAST

Statement: Given that in state 279 the agent chose SOUTH in what state would it chose WEST?   
In state 199:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 0

Passenger destination: 1

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 0

Passenger destination: 1

State Path: 281, 281, 181

Loss function value: 0.95

Action path: NORTH

Statement: Given that in state 281 the agent chose WEST in what state would it chose SOUTH?   
In state 181:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 0

Passenger destination: 1

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 0

Passenger destination: 1

State Path: 281, 281, 381, 481

Loss function value: 0.9

Action path: SOUTH, SOUTH

Statement: Given that in state 281 the agent chose WEST in what state would it chose NORTH?   
In state 481:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 0

Passenger destination: 2

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 0

Passenger destination: 2

State Path: 282, 282, 262, 162, 62

Loss function value: 0.85

Action path: WEST, NORTH, NORTH

Statement: Given that in state 282 the agent chose WEST in what state would it chose SOUTH?   
In state 62:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 0

Passenger destination: 2

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 0

Passenger destination: 2

State Path: 282, 282, 382, 482

Loss function value: 0.9

Action path: SOUTH, SOUTH

Statement: Given that in state 282 the agent chose WEST in what state would it chose NORTH?   
In state 482:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 0

Passenger destination: 3

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 0

Passenger destination: 3

State Path: 283, 283, 263, 243, 143

Loss function value: 0.85

Action path: WEST, WEST, NORTH

Statement: Given that in state 283 the agent chose WEST in what state would it chose SOUTH?   
In state 143:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 0

Passenger destination: 3

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 0

Passenger destination: 3

State Path: 283, 283, 383

Loss function value: 0.95

Action path: SOUTH

Statement: Given that in state 283 the agent chose WEST in what state would it chose NORTH?   
In state 383:

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|R: | : :G|

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| | : | : |

|Y| : |B: |

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Factual explanation:

Passenger location: 1

Passenger destination: 0

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 1

Passenger destination: 0

State Path: 284, 284, 264, 244, 224, 124

Loss function value: 0.8

Action path: WEST, WEST, WEST, NORTH

Statement: Given that in state 284 the agent chose NORTH in what state would it chose SOUTH?   
In state 124:

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|R: | : :G|

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| : : : : |

| | : | : |

|Y| : |B: |

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Factual explanation:

Passenger location: 1

Passenger destination: 0

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

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Counterfactual explanation:

Passenger location: 4

Passenger destination: 0

State Path: 284, 284, 184, 84, 96

Loss function value: 0.85

Action path: NORTH, NORTH, PICKUP

Statement: Given that in state 284 the agent chose NORTH in what state would it chose WEST?   
In state 96 where the passanger location is now In Taxi:

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|R: | : :G|

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| : : : : |

| | : | : |

|Y| : |B: |

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Factual explanation:

Passenger location: 1

Passenger destination: 2

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

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Counterfactual explanation:

Passenger location: 1

Passenger destination: 2

State Path: 286, 286, 266, 246, 226, 126

Loss function value: 0.8

Action path: WEST, WEST, WEST, NORTH

Statement: Given that in state 286 the agent chose NORTH in what state would it chose SOUTH?   
In state 126:

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|R: | : :G|

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| : : : : |

| | : | : |

|Y| : |B: |

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Factual explanation:

Passenger location: 1

Passenger destination: 2

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 4

Passenger destination: 2

State Path: 286, 286, 186, 86, 98

Loss function value: 0.85

Action path: NORTH, NORTH, PICKUP

Statement: Given that in state 286 the agent chose NORTH in what state would it chose WEST?   
In state 98 where the passanger location is now In Taxi:

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|R: | : :G|

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| : : : : |

| | : | : |

|Y| : |B: |

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Factual explanation:

Passenger location: 1

Passenger destination: 3

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 1

Passenger destination: 3

State Path: 287, 287, 267, 247, 227, 127

Loss function value: 0.8

Action path: WEST, WEST, WEST, NORTH

Statement: Given that in state 287 the agent chose NORTH in what state would it chose SOUTH?   
In state 127:

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|R: | : :G|

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| : : : : |

| | : | : |

|Y| : |B: |

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Factual explanation:

Passenger location: 1

Passenger destination: 3

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 4

Passenger destination: 3

State Path: 287, 287, 187, 87, 99

Loss function value: 0.85

Action path: NORTH, NORTH, PICKUP

Statement: Given that in state 287 the agent chose NORTH in what state would it chose WEST?   
In state 99 where the passanger location is now In Taxi:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

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Factual explanation:

Passenger location: 2

Passenger destination: 0

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 2

Passenger destination: 0

State Path: 288, 288, 188

Loss function value: 0.95

Action path: NORTH

Statement: Given that in state 288 the agent chose WEST in what state would it chose SOUTH?   
In state 188:

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|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 2

Passenger destination: 0

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 2

Passenger destination: 0

State Path: 288, 288, 388

Loss function value: 0.95

Action path: SOUTH

Statement: Given that in state 288 the agent chose WEST in what state would it chose NORTH?   
In state 388:

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|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

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Factual explanation:

Passenger location: 2

Passenger destination: 1

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 2

Passenger destination: 1

State Path: 289, 289, 189, 169, 149

Loss function value: 0.85

Action path: NORTH, WEST, WEST

Statement: Given that in state 289 the agent chose WEST in what state would it chose SOUTH?   
In state 149:

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|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

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Factual explanation:

Passenger location: 2

Passenger destination: 1

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 2

Passenger destination: 1

State Path: 289, 289, 389, 369

Loss function value: 0.9

Action path: SOUTH, WEST

Statement: Given that in state 289 the agent chose WEST in what state would it chose NORTH?   
In state 369:

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|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

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Factual explanation:

Passenger location: 2

Passenger destination: 3

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 2

Passenger destination: 3

State Path: 291, 291, 191, 91

Loss function value: 0.9

Action path: NORTH, NORTH

Statement: Given that in state 291 the agent chose WEST in what state would it chose SOUTH?   
In state 91:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 2

Passenger destination: 3

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 2

Passenger destination: 3

State Path: 291, 291, 391

Loss function value: 0.95

Action path: SOUTH

Statement: Given that in state 291 the agent chose WEST in what state would it chose NORTH?   
In state 391:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 3

Passenger destination: 0

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 3

Passenger destination: 0

State Path: 292, 292, 272, 252, 352

Loss function value: 0.85

Action path: WEST, WEST, SOUTH

Statement: Given that in state 292 the agent chose SOUTH in what state would it chose NORTH?   
In state 352:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 3

Passenger destination: 0

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 3

Passenger destination: 0

State Path: 292, 292, 192

Loss function value: 0.95

Action path: NORTH

Statement: Given that in state 292 the agent chose SOUTH in what state would it chose WEST?   
In state 192:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 3

Passenger destination: 1

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 3

Passenger destination: 1

State Path: 293, 293, 393

Loss function value: 0.95

Action path: SOUTH

Statement: Given that in state 293 the agent chose WEST in what state would it chose SOUTH?   
In state 393:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 3

Passenger destination: 1

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 3

Passenger destination: 1

State Path: 293, 293, 273, 253, 353

Loss function value: 0.85

Action path: WEST, WEST, SOUTH

Statement: Given that in state 293 the agent chose WEST in what state would it chose NORTH?   
In state 353:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 3

Passenger destination: 2

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 3

Passenger destination: 2

State Path: 294, 294, 194

Loss function value: 0.95

Action path: NORTH

Statement: Given that in state 294 the agent chose WEST in what state would it chose SOUTH?   
In state 194:

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|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 3

Passenger destination: 2

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 3

Passenger destination: 2

State Path: 294, 294, 274, 254, 354

Loss function value: 0.85

Action path: WEST, WEST, SOUTH

Statement: Given that in state 294 the agent chose WEST in what state would it chose NORTH?   
In state 354:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 4

Passenger destination: 0

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 4

Passenger destination: 0

State Path: 296, 296, 196, 176, 156

Loss function value: 0.85

Action path: NORTH, WEST, WEST

Statement: Given that in state 296 the agent chose WEST in what state would it chose SOUTH?   
In state 156:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 4

Passenger destination: 0

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 4

Passenger destination: 0

State Path: 296, 296, 396, 376

Loss function value: 0.9

Action path: SOUTH, WEST

Statement: Given that in state 296 the agent chose WEST in what state would it chose NORTH?   
In state 376:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 4

Passenger destination: 1

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 4

Passenger destination: 1

State Path: 297, 297, 197, 177, 157, 57

Loss function value: 0.8

Action path: NORTH, WEST, WEST, NORTH

Statement: Given that in state 297 the agent chose NORTH in what state would it chose SOUTH?   
In state 57:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

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Factual explanation:

Passenger location: 4

Passenger destination: 1

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

No counterfactual found for target WEST

Factual explanation:

Passenger location: 4

Passenger destination: 1

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

No counterfactual found for target WEST

Factual explanation:

Passenger location: 4

Passenger destination: 2

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 4

Passenger destination: 2

State Path: 298, 298, 278, 258, 158

Loss function value: 0.85

Action path: WEST, WEST, NORTH

Statement: Given that in state 298 the agent chose WEST in what state would it chose SOUTH?   
In state 158:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 4

Passenger destination: 2

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 4

Passenger destination: 2

State Path: 298, 298, 398

Loss function value: 0.95

Action path: SOUTH

Statement: Given that in state 298 the agent chose WEST in what state would it chose NORTH?   
In state 398:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 4

Passenger destination: 3

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 4

Passenger destination: 3

State Path: 299, 299, 279, 259, 359

Loss function value: 0.85

Action path: WEST, WEST, SOUTH

Statement: Given that in state 299 the agent chose SOUTH in what state would it chose NORTH?   
In state 359:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 4

Passenger destination: 3

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 4

Passenger destination: 3

State Path: 299, 299, 199

Loss function value: 0.95

Action path: NORTH

Statement: Given that in state 299 the agent chose SOUTH in what state would it chose WEST?   
In state 199:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 0

Passenger destination: 1

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

No counterfactual found for target SOUTH

Factual explanation:

Passenger location: 0

Passenger destination: 1

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

No counterfactual found for target SOUTH

Factual explanation:

Passenger location: 0

Passenger destination: 2

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

No counterfactual found for target SOUTH

Factual explanation:

Passenger location: 0

Passenger destination: 2

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

No counterfactual found for target SOUTH

Factual explanation:

Passenger location: 0

Passenger destination: 3

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

No counterfactual found for target SOUTH

Factual explanation:

Passenger location: 0

Passenger destination: 3

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

No counterfactual found for target SOUTH

Factual explanation:

Passenger location: 1

Passenger destination: 0

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

No counterfactual found for target SOUTH

Factual explanation:

Passenger location: 1

Passenger destination: 0

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

No counterfactual found for target SOUTH

Factual explanation:

Passenger location: 1

Passenger destination: 2

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

No counterfactual found for target SOUTH

Factual explanation:

Passenger location: 1

Passenger destination: 2

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

No counterfactual found for target SOUTH

Factual explanation:

Passenger location: 1

Passenger destination: 3

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

No counterfactual found for target SOUTH

Factual explanation:

Passenger location: 1

Passenger destination: 3

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

No counterfactual found for target SOUTH

Factual explanation:

Passenger location: 2

Passenger destination: 0

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 4

Passenger destination: 0

State Path: 308, 308, 408, 416

Loss function value: 0.9

Action path: SOUTH, PICKUP

Statement: Given that in state 308 the agent chose SOUTH in what state would it chose NORTH?   
In state 416 where the passanger location is now In Taxi:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 2

Passenger destination: 1

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 4

Passenger destination: 1

State Path: 309, 309, 409, 417

Loss function value: 0.9

Action path: SOUTH, PICKUP

Statement: Given that in state 309 the agent chose SOUTH in what state would it chose NORTH?   
In state 417 where the passanger location is now In Taxi:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 2

Passenger destination: 3

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 4

Passenger destination: 3

State Path: 311, 311, 411, 419

Loss function value: 0.9

Action path: SOUTH, PICKUP

Statement: Given that in state 311 the agent chose SOUTH in what state would it chose NORTH?   
In state 419 where the passanger location is now In Taxi:

+---------+

|R: | : :G|

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| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 3

Passenger destination: 0

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

No counterfactual found for target SOUTH

Factual explanation:

Passenger location: 3

Passenger destination: 0

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

No counterfactual found for target SOUTH

Factual explanation:

Passenger location: 3

Passenger destination: 1

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

No counterfactual found for target SOUTH

Factual explanation:

Passenger location: 3

Passenger destination: 1

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

No counterfactual found for target SOUTH

Factual explanation:

Passenger location: 3

Passenger destination: 2

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

No counterfactual found for target SOUTH

Factual explanation:

Passenger location: 3

Passenger destination: 2

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

No counterfactual found for target SOUTH

Factual explanation:

Passenger location: 4

Passenger destination: 0

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

No counterfactual found for target SOUTH

Factual explanation:

Passenger location: 4

Passenger destination: 0

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

No counterfactual found for target SOUTH

Factual explanation:

Passenger location: 4

Passenger destination: 1

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

No counterfactual found for target SOUTH

Factual explanation:

Passenger location: 4

Passenger destination: 1

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

No counterfactual found for target SOUTH

Factual explanation:

Passenger location: 4

Passenger destination: 2

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 4

Passenger destination: 2

State Path: 318, 318, 218, 238, 338

Loss function value: 0.85

Action path: NORTH, EAST, SOUTH

Statement: Given that in state 318 the agent chose SOUTH in what state would it chose NORTH?   
In state 338:

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|R: | : :G|

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|Y| : |B: |

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Factual explanation:

Passenger location: 4

Passenger destination: 3

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

No counterfactual found for target SOUTH

Factual explanation:

Passenger location: 4

Passenger destination: 3

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

No counterfactual found for target SOUTH

Factual explanation:

Passenger location: 0

Passenger destination: 1

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 0

Passenger destination: 1

State Path: 321, 321, 221, 241, 141

Loss function value: 0.85

Action path: NORTH, EAST, NORTH

Statement: Given that in state 321 the agent chose NORTH in what state would it chose SOUTH?   
In state 141:

+---------+

|R: | : :G|

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| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 0

Passenger destination: 1

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 4

Passenger destination: 1

State Path: 321, 321, 221, 121, 101, 1, 17

Loss function value: 0.75

Action path: NORTH, NORTH, WEST, NORTH, PICKUP

Statement: Given that in state 321 the agent chose NORTH in what state would it chose EAST?   
In state 17 where the passanger location is now In Taxi:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 0

Passenger destination: 2

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 0

Passenger destination: 2

State Path: 322, 322, 222, 242, 142

Loss function value: 0.85

Action path: NORTH, EAST, NORTH

Statement: Given that in state 322 the agent chose NORTH in what state would it chose SOUTH?   
In state 142:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 0

Passenger destination: 2

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

No counterfactual found for target EAST

Factual explanation:

Passenger location: 0

Passenger destination: 2

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

No counterfactual found for target EAST

Factual explanation:

Passenger location: 0

Passenger destination: 3

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 0

Passenger destination: 3

State Path: 323, 323, 223, 243, 143

Loss function value: 0.85

Action path: NORTH, EAST, NORTH

Statement: Given that in state 323 the agent chose NORTH in what state would it chose SOUTH?   
In state 143:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 0

Passenger destination: 3

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 4

Passenger destination: 3

State Path: 323, 323, 223, 123, 23, 3, 19

Loss function value: 0.75

Action path: NORTH, NORTH, NORTH, WEST, PICKUP

Statement: Given that in state 323 the agent chose NORTH in what state would it chose EAST?   
In state 19 where the passanger location is now In Taxi:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 1

Passenger destination: 0

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 1

Passenger destination: 0

State Path: 324, 324, 224, 124

Loss function value: 0.9

Action path: NORTH, NORTH

Statement: Given that in state 324 the agent chose EAST in what state would it chose SOUTH?   
In state 124:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 1

Passenger destination: 0

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 1

Passenger destination: 0

State Path: 324, 324, 344

Loss function value: 0.95

Action path: EAST

Statement: Given that in state 324 the agent chose EAST in what state would it chose NORTH?   
In state 344:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 1

Passenger destination: 2

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 1

Passenger destination: 2

State Path: 326, 326, 226, 126

Loss function value: 0.9

Action path: NORTH, NORTH

Statement: Given that in state 326 the agent chose EAST in what state would it chose SOUTH?   
In state 126:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 1

Passenger destination: 2

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 1

Passenger destination: 2

State Path: 326, 326, 346

Loss function value: 0.95

Action path: EAST

Statement: Given that in state 326 the agent chose EAST in what state would it chose NORTH?   
In state 346:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 1

Passenger destination: 3

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 1

Passenger destination: 3

State Path: 327, 327, 227, 127

Loss function value: 0.9

Action path: NORTH, NORTH

Statement: Given that in state 327 the agent chose EAST in what state would it chose SOUTH?   
In state 127:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 1

Passenger destination: 3

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 1

Passenger destination: 3

State Path: 327, 327, 427

Loss function value: 0.95

Action path: SOUTH

Statement: Given that in state 327 the agent chose EAST in what state would it chose NORTH?   
In state 427:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 2

Passenger destination: 0

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 2

Passenger destination: 0

State Path: 328, 328, 228, 208

Loss function value: 0.9

Action path: NORTH, WEST

Statement: Given that in state 328 the agent chose NORTH in what state would it chose SOUTH?   
In state 208:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 2

Passenger destination: 0

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

No counterfactual found for target EAST

Factual explanation:

Passenger location: 2

Passenger destination: 0

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

No counterfactual found for target EAST

Factual explanation:

Passenger location: 2

Passenger destination: 1

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 2

Passenger destination: 1

State Path: 329, 329, 229, 209

Loss function value: 0.9

Action path: NORTH, WEST

Statement: Given that in state 329 the agent chose NORTH in what state would it chose SOUTH?   
In state 209:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 2

Passenger destination: 1

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 4

Passenger destination: 1

State Path: 329, 329, 229, 209, 309, 409, 417, 317, 217

Loss function value: 0.65

Action path: NORTH, WEST, SOUTH, SOUTH, PICKUP, NORTH, NORTH

Statement: Given that in state 329 the agent chose NORTH in what state would it chose EAST?   
In state 217 where the passanger location is now In Taxi:

+---------+

|R: | : :G|

| : | : : |

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| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 2

Passenger destination: 3

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 2

Passenger destination: 3

State Path: 331, 331, 231, 211

Loss function value: 0.9

Action path: NORTH, WEST

Statement: Given that in state 331 the agent chose NORTH in what state would it chose SOUTH?   
In state 211:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 2

Passenger destination: 3

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

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Counterfactual explanation:

Passenger location: 4

Passenger destination: 3

State Path: 331, 331, 231, 211, 311, 411, 419, 319, 219

Loss function value: 0.65

Action path: NORTH, WEST, SOUTH, SOUTH, PICKUP, NORTH, NORTH

Statement: Given that in state 331 the agent chose NORTH in what state would it chose EAST?   
In state 219 where the passanger location is now In Taxi:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 3

Passenger destination: 0

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 3

Passenger destination: 0

State Path: 332, 332, 232, 132

Loss function value: 0.9

Action path: NORTH, NORTH

Statement: Given that in state 332 the agent chose NORTH in what state would it chose SOUTH?   
In state 132:

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|R: | : :G|

| : | : : |

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| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 3

Passenger destination: 0

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 3

Passenger destination: 0

State Path: 332, 332, 432

Loss function value: 0.95

Action path: SOUTH

Statement: Given that in state 332 the agent chose NORTH in what state would it chose EAST?   
In state 432:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 3

Passenger destination: 1

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 3

Passenger destination: 1

State Path: 333, 333, 233, 133

Loss function value: 0.9

Action path: NORTH, NORTH

Statement: Given that in state 333 the agent chose NORTH in what state would it chose SOUTH?   
In state 133:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 3

Passenger destination: 1

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 3

Passenger destination: 1

State Path: 333, 333, 233

Loss function value: 0.95

Action path: NORTH

Statement: Given that in state 333 the agent chose NORTH in what state would it chose EAST?   
In state 233:

+---------+

|R: | : :G|

| : | : : |

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| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 3

Passenger destination: 2

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 3

Passenger destination: 2

State Path: 334, 334, 234, 134

Loss function value: 0.9

Action path: NORTH, NORTH

Statement: Given that in state 334 the agent chose NORTH in what state would it chose SOUTH?   
In state 134:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 3

Passenger destination: 2

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 3

Passenger destination: 2

State Path: 334, 334, 234

Loss function value: 0.95

Action path: NORTH

Statement: Given that in state 334 the agent chose NORTH in what state would it chose EAST?   
In state 234:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 4

Passenger destination: 0

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 4

Passenger destination: 0

State Path: 336, 336, 356, 256, 156

Loss function value: 0.85

Action path: EAST, NORTH, NORTH

Statement: Given that in state 336 the agent chose NORTH in what state would it chose SOUTH?   
In state 156:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 4

Passenger destination: 0

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

No counterfactual found for target EAST

Factual explanation:

Passenger location: 4

Passenger destination: 0

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

No counterfactual found for target EAST

Factual explanation:

Passenger location: 4

Passenger destination: 1

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 4

Passenger destination: 1

State Path: 337, 337, 237, 137

Loss function value: 0.9

Action path: NORTH, NORTH

Statement: Given that in state 337 the agent chose NORTH in what state would it chose SOUTH?   
In state 137:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 4

Passenger destination: 1

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 4

Passenger destination: 1

State Path: 337, 337, 237

Loss function value: 0.95

Action path: NORTH

Statement: Given that in state 337 the agent chose NORTH in what state would it chose EAST?   
In state 237:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 4

Passenger destination: 2

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 4

Passenger destination: 2

State Path: 338, 338, 238, 218

Loss function value: 0.9

Action path: NORTH, WEST

Statement: Given that in state 338 the agent chose NORTH in what state would it chose SOUTH?   
In state 218:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 4

Passenger destination: 2

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

No counterfactual found for target EAST

Factual explanation:

Passenger location: 4

Passenger destination: 2

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

No counterfactual found for target EAST

Factual explanation:

Passenger location: 4

Passenger destination: 3

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 4

Passenger destination: 3

State Path: 339, 339, 239, 139

Loss function value: 0.9

Action path: NORTH, NORTH

Statement: Given that in state 339 the agent chose NORTH in what state would it chose SOUTH?   
In state 139:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 4

Passenger destination: 3

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 4

Passenger destination: 3

State Path: 339, 339, 439

Loss function value: 0.95

Action path: SOUTH

Statement: Given that in state 339 the agent chose NORTH in what state would it chose EAST?   
In state 439:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 0

Passenger destination: 1

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 0

Passenger destination: 1

State Path: 341, 341, 241, 141

Loss function value: 0.9

Action path: NORTH, NORTH

Statement: Given that in state 341 the agent chose NORTH in what state would it chose SOUTH?   
In state 141:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 0

Passenger destination: 1

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 0

Passenger destination: 1

State Path: 341, 341, 441

Loss function value: 0.95

Action path: SOUTH

Statement: Given that in state 341 the agent chose NORTH in what state would it chose WEST?   
In state 441:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 0

Passenger destination: 2

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 0

Passenger destination: 2

State Path: 342, 342, 242, 142

Loss function value: 0.9

Action path: NORTH, NORTH

Statement: Given that in state 342 the agent chose WEST in what state would it chose SOUTH?   
In state 142:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 0

Passenger destination: 2

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 0

Passenger destination: 2

State Path: 342, 342, 322

Loss function value: 0.95

Action path: WEST

Statement: Given that in state 342 the agent chose WEST in what state would it chose NORTH?   
In state 322:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 0

Passenger destination: 3

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 0

Passenger destination: 3

State Path: 343, 343, 243, 143

Loss function value: 0.9

Action path: NORTH, NORTH

Statement: Given that in state 343 the agent chose WEST in what state would it chose SOUTH?   
In state 143:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 0

Passenger destination: 3

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

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Counterfactual explanation:

Passenger location: 0

Passenger destination: 3

State Path: 343, 343, 323

Loss function value: 0.95

Action path: WEST

Statement: Given that in state 343 the agent chose WEST in what state would it chose NORTH?   
In state 323:

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|R: | : :G|

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|Y| : |B: |

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Factual explanation:

Passenger location: 1

Passenger destination: 0

+---------+

|R: | : :G|

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| : : : : |

| | : | : |

|Y| : |B: |

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Counterfactual explanation:

Passenger location: 1

Passenger destination: 0

State Path: 344, 344, 324, 224, 124

Loss function value: 0.85

Action path: WEST, NORTH, NORTH

Statement: Given that in state 344 the agent chose NORTH in what state would it chose SOUTH?   
In state 124:

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|R: | : :G|

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| : : : : |

| | : | : |

|Y| : |B: |

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Factual explanation:

Passenger location: 1

Passenger destination: 0

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

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Counterfactual explanation:

Passenger location: 4

Passenger destination: 0

State Path: 344, 344, 244, 144, 44, 64, 84, 96

Loss function value: 0.7

Action path: NORTH, NORTH, NORTH, EAST, EAST, PICKUP

Statement: Given that in state 344 the agent chose NORTH in what state would it chose WEST?   
In state 96 where the passanger location is now In Taxi:

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|R: | : :G|

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| | : | : |

|Y| : |B: |

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Factual explanation:

Passenger location: 1

Passenger destination: 2

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 1

Passenger destination: 2

State Path: 346, 346, 246, 226, 126

Loss function value: 0.85

Action path: NORTH, WEST, NORTH

Statement: Given that in state 346 the agent chose NORTH in what state would it chose SOUTH?   
In state 126:

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|R: | : :G|

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| : : : : |

| | : | : |

|Y| : |B: |

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Factual explanation:

Passenger location: 1

Passenger destination: 2

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

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Counterfactual explanation:

Passenger location: 4

Passenger destination: 2

State Path: 346, 346, 246, 266, 286, 186, 86, 98

Loss function value: 0.7

Action path: NORTH, EAST, EAST, NORTH, NORTH, PICKUP

Statement: Given that in state 346 the agent chose NORTH in what state would it chose WEST?   
In state 98 where the passanger location is now In Taxi:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

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Factual explanation:

Passenger location: 1

Passenger destination: 3

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 1

Passenger destination: 3

State Path: 347, 347, 247, 227, 127

Loss function value: 0.85

Action path: NORTH, WEST, NORTH

Statement: Given that in state 347 the agent chose NORTH in what state would it chose SOUTH?   
In state 127:

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|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

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Factual explanation:

Passenger location: 1

Passenger destination: 3

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

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Counterfactual explanation:

Passenger location: 4

Passenger destination: 3

State Path: 347, 347, 247, 147, 167, 187, 87, 99

Loss function value: 0.7

Action path: NORTH, NORTH, EAST, EAST, NORTH, PICKUP

Statement: Given that in state 347 the agent chose NORTH in what state would it chose WEST?   
In state 99 where the passanger location is now In Taxi:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

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Factual explanation:

Passenger location: 2

Passenger destination: 0

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 2

Passenger destination: 0

State Path: 348, 348, 248, 148

Loss function value: 0.9

Action path: NORTH, NORTH

Statement: Given that in state 348 the agent chose WEST in what state would it chose SOUTH?   
In state 148:

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|R: | : :G|

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| : : : : |

| | : | : |

|Y| : |B: |

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Factual explanation:

Passenger location: 2

Passenger destination: 0

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 2

Passenger destination: 0

State Path: 348, 348, 328

Loss function value: 0.95

Action path: WEST

Statement: Given that in state 348 the agent chose WEST in what state would it chose NORTH?   
In state 328:

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|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

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Factual explanation:

Passenger location: 2

Passenger destination: 1

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 2

Passenger destination: 1

State Path: 349, 349, 249, 149

Loss function value: 0.9

Action path: NORTH, NORTH

Statement: Given that in state 349 the agent chose WEST in what state would it chose SOUTH?   
In state 149:

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|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 2

Passenger destination: 1

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 2

Passenger destination: 1

State Path: 349, 349, 329

Loss function value: 0.95

Action path: WEST

Statement: Given that in state 349 the agent chose WEST in what state would it chose NORTH?   
In state 329:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

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Factual explanation:

Passenger location: 2

Passenger destination: 3

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 2

Passenger destination: 3

State Path: 351, 351, 251, 151

Loss function value: 0.9

Action path: NORTH, NORTH

Statement: Given that in state 351 the agent chose WEST in what state would it chose SOUTH?   
In state 151:

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|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

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Factual explanation:

Passenger location: 2

Passenger destination: 3

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 2

Passenger destination: 3

State Path: 351, 351, 451

Loss function value: 0.95

Action path: SOUTH

Statement: Given that in state 351 the agent chose WEST in what state would it chose NORTH?   
In state 451:

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|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 3

Passenger destination: 0

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 3

Passenger destination: 0

State Path: 352, 352, 252, 272

Loss function value: 0.9

Action path: NORTH, EAST

Statement: Given that in state 352 the agent chose NORTH in what state would it chose SOUTH?   
In state 272:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 3

Passenger destination: 0

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 3

Passenger destination: 0

State Path: 352, 352, 252, 272, 292, 192

Loss function value: 0.8

Action path: NORTH, EAST, EAST, NORTH

Statement: Given that in state 352 the agent chose NORTH in what state would it chose WEST?   
In state 192:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 3

Passenger destination: 1

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 3

Passenger destination: 1

State Path: 353, 353, 253, 273

Loss function value: 0.9

Action path: NORTH, EAST

Statement: Given that in state 353 the agent chose NORTH in what state would it chose SOUTH?   
In state 273:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

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Factual explanation:

Passenger location: 3

Passenger destination: 1

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

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Counterfactual explanation:

Passenger location: 3

Passenger destination: 1

State Path: 353, 353, 253, 273, 293

Loss function value: 0.85

Action path: NORTH, EAST, EAST

Statement: Given that in state 353 the agent chose NORTH in what state would it chose WEST?   
In state 293:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 3

Passenger destination: 2

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 3

Passenger destination: 2

State Path: 354, 354, 254, 274

Loss function value: 0.9

Action path: NORTH, EAST

Statement: Given that in state 354 the agent chose NORTH in what state would it chose SOUTH?   
In state 274:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 3

Passenger destination: 2

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 3

Passenger destination: 2

State Path: 354, 354, 254, 274, 294

Loss function value: 0.85

Action path: NORTH, EAST, EAST

Statement: Given that in state 354 the agent chose NORTH in what state would it chose WEST?   
In state 294:

+---------+

|R: | : :G|

| : | : : |

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|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 4

Passenger destination: 0

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 4

Passenger destination: 0

State Path: 356, 356, 256, 156

Loss function value: 0.9

Action path: NORTH, NORTH

Statement: Given that in state 356 the agent chose WEST in what state would it chose SOUTH?   
In state 156:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 4

Passenger destination: 0

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 4

Passenger destination: 0

State Path: 356, 356, 336

Loss function value: 0.95

Action path: WEST

Statement: Given that in state 356 the agent chose WEST in what state would it chose NORTH?   
In state 336:

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|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 4

Passenger destination: 1

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 4

Passenger destination: 1

State Path: 357, 357, 257, 157, 57

Loss function value: 0.85

Action path: NORTH, NORTH, NORTH

Statement: Given that in state 357 the agent chose NORTH in what state would it chose SOUTH?   
In state 57:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 4

Passenger destination: 1

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

No counterfactual found for target WEST

Factual explanation:

Passenger location: 4

Passenger destination: 1

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

No counterfactual found for target WEST

Factual explanation:

Passenger location: 4

Passenger destination: 2

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 4

Passenger destination: 2

State Path: 358, 358, 258, 158

Loss function value: 0.9

Action path: NORTH, NORTH

Statement: Given that in state 358 the agent chose NORTH in what state would it chose SOUTH?   
In state 158:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 4

Passenger destination: 2

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 4

Passenger destination: 2

State Path: 358, 358, 258

Loss function value: 0.95

Action path: NORTH

Statement: Given that in state 358 the agent chose NORTH in what state would it chose WEST?   
In state 258:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 4

Passenger destination: 3

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 4

Passenger destination: 3

State Path: 359, 359, 259, 279

Loss function value: 0.9

Action path: NORTH, EAST

Statement: Given that in state 359 the agent chose NORTH in what state would it chose SOUTH?   
In state 279:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 4

Passenger destination: 3

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 4

Passenger destination: 3

State Path: 359, 359, 259, 279, 179, 199

Loss function value: 0.8

Action path: NORTH, EAST, NORTH, EAST

Statement: Given that in state 359 the agent chose NORTH in what state would it chose WEST?   
In state 199:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 0

Passenger destination: 1

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 0

Passenger destination: 1

State Path: 361, 361, 261, 241, 141

Loss function value: 0.85

Action path: NORTH, WEST, NORTH

Statement: Given that in state 361 the agent chose NORTH in what state would it chose SOUTH?   
In state 141:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 0

Passenger destination: 1

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 4

Passenger destination: 1

State Path: 361, 361, 261, 241, 221, 121, 101, 1, 17

Loss function value: 0.65

Action path: NORTH, WEST, WEST, NORTH, WEST, NORTH, PICKUP

Statement: Given that in state 361 the agent chose NORTH in what state would it chose EAST?   
In state 17 where the passanger location is now In Taxi:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 0

Passenger destination: 2

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 0

Passenger destination: 2

State Path: 362, 362, 262, 162, 142

Loss function value: 0.85

Action path: NORTH, NORTH, WEST

Statement: Given that in state 362 the agent chose NORTH in what state would it chose SOUTH?   
In state 142:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 0

Passenger destination: 2

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

No counterfactual found for target EAST

Factual explanation:

Passenger location: 0

Passenger destination: 2

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

No counterfactual found for target EAST

Factual explanation:

Passenger location: 0

Passenger destination: 3

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 0

Passenger destination: 3

State Path: 363, 363, 263, 243, 143

Loss function value: 0.85

Action path: NORTH, WEST, NORTH

Statement: Given that in state 363 the agent chose NORTH in what state would it chose SOUTH?   
In state 143:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 0

Passenger destination: 3

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 4

Passenger destination: 3

State Path: 363, 363, 263, 243, 223, 123, 103, 3, 19

Loss function value: 0.65

Action path: NORTH, WEST, WEST, NORTH, WEST, NORTH, PICKUP

Statement: Given that in state 363 the agent chose NORTH in what state would it chose EAST?   
In state 19 where the passanger location is now In Taxi:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 1

Passenger destination: 0

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 1

Passenger destination: 0

State Path: 364, 364, 264, 244, 224, 124

Loss function value: 0.8

Action path: NORTH, WEST, WEST, NORTH

Statement: Given that in state 364 the agent chose EAST in what state would it chose SOUTH?   
In state 124:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 1

Passenger destination: 0

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 1

Passenger destination: 0

State Path: 364, 364, 464

Loss function value: 0.95

Action path: SOUTH

Statement: Given that in state 364 the agent chose EAST in what state would it chose NORTH?   
In state 464:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 1

Passenger destination: 2

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 1

Passenger destination: 2

State Path: 366, 366, 266, 246, 226, 126

Loss function value: 0.8

Action path: NORTH, WEST, WEST, NORTH

Statement: Given that in state 366 the agent chose NORTH in what state would it chose SOUTH?   
In state 126:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 1

Passenger destination: 2

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 1

Passenger destination: 2

State Path: 366, 366, 266

Loss function value: 0.95

Action path: NORTH

Statement: Given that in state 366 the agent chose NORTH in what state would it chose EAST?   
In state 266:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 1

Passenger destination: 3

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 1

Passenger destination: 3

State Path: 367, 367, 267, 247, 227, 127

Loss function value: 0.8

Action path: NORTH, WEST, WEST, NORTH

Statement: Given that in state 367 the agent chose NORTH in what state would it chose SOUTH?   
In state 127:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 1

Passenger destination: 3

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 1

Passenger destination: 3

State Path: 367, 367, 267

Loss function value: 0.95

Action path: NORTH

Statement: Given that in state 367 the agent chose NORTH in what state would it chose EAST?   
In state 267:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 2

Passenger destination: 0

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 2

Passenger destination: 0

State Path: 368, 368, 388, 288, 188

Loss function value: 0.85

Action path: EAST, NORTH, NORTH

Statement: Given that in state 368 the agent chose NORTH in what state would it chose SOUTH?   
In state 188:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 2

Passenger destination: 0

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

No counterfactual found for target EAST

Factual explanation:

Passenger location: 2

Passenger destination: 0

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

No counterfactual found for target EAST

Factual explanation:

Passenger location: 2

Passenger destination: 1

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 2

Passenger destination: 1

State Path: 369, 369, 269, 249, 149

Loss function value: 0.85

Action path: NORTH, WEST, NORTH

Statement: Given that in state 369 the agent chose NORTH in what state would it chose SOUTH?   
In state 149:

+---------+

|R: | : :G|

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| : : : : |

| | : | : |

|Y| : |B: |

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Factual explanation:

Passenger location: 2

Passenger destination: 1

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

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Counterfactual explanation:

Passenger location: 4

Passenger destination: 1

State Path: 369, 369, 269, 249, 229, 209, 309, 409, 417, 317, 217

Loss function value: 0.55

Action path: NORTH, WEST, WEST, WEST, SOUTH, SOUTH, PICKUP, NORTH, NORTH

Statement: Given that in state 369 the agent chose NORTH in what state would it chose EAST?   
In state 217 where the passanger location is now In Taxi:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 2

Passenger destination: 3

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 2

Passenger destination: 3

State Path: 371, 371, 271, 171, 151

Loss function value: 0.85

Action path: NORTH, NORTH, WEST

Statement: Given that in state 371 the agent chose NORTH in what state would it chose SOUTH?   
In state 151:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 2

Passenger destination: 3

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 4

Passenger destination: 3

State Path: 371, 371, 271, 251, 231, 211, 311, 411, 419, 319, 219

Loss function value: 0.55

Action path: NORTH, WEST, WEST, WEST, SOUTH, SOUTH, PICKUP, NORTH, NORTH

Statement: Given that in state 371 the agent chose NORTH in what state would it chose EAST?   
In state 219 where the passanger location is now In Taxi:

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|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 3

Passenger destination: 0

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 4

Passenger destination: 0

State Path: 372, 372, 472, 476

Loss function value: 0.9

Action path: SOUTH, PICKUP

Statement: Given that in state 372 the agent chose SOUTH in what state would it chose NORTH?   
In state 476 where the passanger location is now In Taxi:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 3

Passenger destination: 0

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 3

Passenger destination: 0

State Path: 372, 372, 272, 252

Loss function value: 0.9

Action path: NORTH, WEST

Statement: Given that in state 372 the agent chose SOUTH in what state would it chose EAST?   
In state 252:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 3

Passenger destination: 1

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 4

Passenger destination: 1

State Path: 373, 373, 473, 477, 497

Loss function value: 0.85

Action path: SOUTH, PICKUP, EAST

Statement: Given that in state 373 the agent chose SOUTH in what state would it chose NORTH?   
In state 497 where the passanger location is now In Taxi:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 3

Passenger destination: 1

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 3

Passenger destination: 1

State Path: 373, 373, 273, 253

Loss function value: 0.9

Action path: NORTH, WEST

Statement: Given that in state 373 the agent chose SOUTH in what state would it chose EAST?   
In state 253:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 3

Passenger destination: 2

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 4

Passenger destination: 2

State Path: 374, 374, 474, 478

Loss function value: 0.9

Action path: SOUTH, PICKUP

Statement: Given that in state 374 the agent chose SOUTH in what state would it chose NORTH?   
In state 478 where the passanger location is now In Taxi:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 3

Passenger destination: 2

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 3

Passenger destination: 2

State Path: 374, 374, 274, 254

Loss function value: 0.9

Action path: NORTH, WEST

Statement: Given that in state 374 the agent chose SOUTH in what state would it chose EAST?   
In state 254:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 4

Passenger destination: 0

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 4

Passenger destination: 0

State Path: 376, 376, 276, 176, 156

Loss function value: 0.85

Action path: NORTH, NORTH, WEST

Statement: Given that in state 376 the agent chose NORTH in what state would it chose SOUTH?   
In state 156:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 4

Passenger destination: 0

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

No counterfactual found for target EAST

Factual explanation:

Passenger location: 4

Passenger destination: 0

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

No counterfactual found for target EAST

Factual explanation:

Passenger location: 4

Passenger destination: 1

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 4

Passenger destination: 1

State Path: 377, 377, 277, 177, 157, 57

Loss function value: 0.8

Action path: NORTH, NORTH, WEST, NORTH

Statement: Given that in state 377 the agent chose EAST in what state would it chose SOUTH?   
In state 57:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 4

Passenger destination: 1

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 4

Passenger destination: 1

State Path: 377, 377, 397

Loss function value: 0.95

Action path: EAST

Statement: Given that in state 377 the agent chose EAST in what state would it chose NORTH?   
In state 397:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 4

Passenger destination: 2

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 4

Passenger destination: 2

State Path: 378, 378, 278, 258, 158

Loss function value: 0.85

Action path: NORTH, WEST, NORTH

Statement: Given that in state 378 the agent chose NORTH in what state would it chose SOUTH?   
In state 158:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 4

Passenger destination: 2

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

No counterfactual found for target EAST

Factual explanation:

Passenger location: 4

Passenger destination: 2

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

No counterfactual found for target EAST

Factual explanation:

Passenger location: 4

Passenger destination: 3

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 4

Passenger destination: 3

State Path: 379, 379, 279, 259, 359

Loss function value: 0.85

Action path: NORTH, WEST, SOUTH

Statement: Given that in state 379 the agent chose SOUTH in what state would it chose NORTH?   
In state 359:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 4

Passenger destination: 3

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 4

Passenger destination: 3

State Path: 379, 379, 279, 259

Loss function value: 0.9

Action path: NORTH, WEST

Statement: Given that in state 379 the agent chose SOUTH in what state would it chose EAST?   
In state 259:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 0

Passenger destination: 1

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 0

Passenger destination: 1

State Path: 381, 381, 281, 181

Loss function value: 0.9

Action path: NORTH, NORTH

Statement: Given that in state 381 the agent chose WEST in what state would it chose SOUTH?   
In state 181:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 0

Passenger destination: 1

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 0

Passenger destination: 1

State Path: 381, 381, 481

Loss function value: 0.95

Action path: SOUTH

Statement: Given that in state 381 the agent chose WEST in what state would it chose NORTH?   
In state 481:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 0

Passenger destination: 2

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 0

Passenger destination: 2

State Path: 382, 382, 362, 262, 242, 142

Loss function value: 0.8

Action path: WEST, NORTH, WEST, NORTH

Statement: Given that in state 382 the agent chose WEST in what state would it chose SOUTH?   
In state 142:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 0

Passenger destination: 2

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 0

Passenger destination: 2

State Path: 382, 382, 482

Loss function value: 0.95

Action path: SOUTH

Statement: Given that in state 382 the agent chose WEST in what state would it chose NORTH?   
In state 482:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 0

Passenger destination: 3

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 0

Passenger destination: 3

State Path: 383, 383, 283, 183, 163, 143

Loss function value: 0.8

Action path: NORTH, NORTH, WEST, WEST

Statement: Given that in state 383 the agent chose NORTH in what state would it chose SOUTH?   
In state 143:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 0

Passenger destination: 3

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 0

Passenger destination: 3

State Path: 383, 383, 483

Loss function value: 0.95

Action path: SOUTH

Statement: Given that in state 383 the agent chose NORTH in what state would it chose WEST?   
In state 483:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 1

Passenger destination: 0

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 1

Passenger destination: 0

State Path: 384, 384, 364, 264, 244, 224, 124

Loss function value: 0.75

Action path: WEST, NORTH, WEST, WEST, NORTH

Statement: Given that in state 384 the agent chose NORTH in what state would it chose SOUTH?   
In state 124:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 1

Passenger destination: 0

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 4

Passenger destination: 0

State Path: 384, 384, 284, 184, 84, 96

Loss function value: 0.8

Action path: NORTH, NORTH, NORTH, PICKUP

Statement: Given that in state 384 the agent chose NORTH in what state would it chose WEST?   
In state 96 where the passanger location is now In Taxi:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 1

Passenger destination: 2

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 1

Passenger destination: 2

State Path: 386, 386, 286, 266, 246, 226, 126

Loss function value: 0.75

Action path: NORTH, WEST, WEST, WEST, NORTH

Statement: Given that in state 386 the agent chose NORTH in what state would it chose SOUTH?   
In state 126:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 1

Passenger destination: 2

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 4

Passenger destination: 2

State Path: 386, 386, 286, 186, 86, 98

Loss function value: 0.8

Action path: NORTH, NORTH, NORTH, PICKUP

Statement: Given that in state 386 the agent chose NORTH in what state would it chose WEST?   
In state 98 where the passanger location is now In Taxi:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 1

Passenger destination: 3

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 1

Passenger destination: 3

State Path: 387, 387, 367, 267, 247, 227, 127

Loss function value: 0.75

Action path: WEST, NORTH, WEST, WEST, NORTH

Statement: Given that in state 387 the agent chose NORTH in what state would it chose SOUTH?   
In state 127:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 1

Passenger destination: 3

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 4

Passenger destination: 3

State Path: 387, 387, 287, 187, 87, 99

Loss function value: 0.8

Action path: NORTH, NORTH, NORTH, PICKUP

Statement: Given that in state 387 the agent chose NORTH in what state would it chose WEST?   
In state 99 where the passanger location is now In Taxi:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 2

Passenger destination: 0

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 2

Passenger destination: 0

State Path: 388, 388, 288, 188

Loss function value: 0.9

Action path: NORTH, NORTH

Statement: Given that in state 388 the agent chose NORTH in what state would it chose SOUTH?   
In state 188:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 2

Passenger destination: 0

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 2

Passenger destination: 0

State Path: 388, 388, 288

Loss function value: 0.95

Action path: NORTH

Statement: Given that in state 388 the agent chose NORTH in what state would it chose WEST?   
In state 288:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 2

Passenger destination: 1

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 2

Passenger destination: 1

State Path: 389, 389, 289, 189, 169, 149

Loss function value: 0.8

Action path: NORTH, NORTH, WEST, WEST

Statement: Given that in state 389 the agent chose WEST in what state would it chose SOUTH?   
In state 149:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 2

Passenger destination: 1

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 2

Passenger destination: 1

State Path: 389, 389, 369

Loss function value: 0.95

Action path: WEST

Statement: Given that in state 389 the agent chose WEST in what state would it chose NORTH?   
In state 369:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 2

Passenger destination: 3

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 2

Passenger destination: 3

State Path: 391, 391, 291, 191, 91

Loss function value: 0.85

Action path: NORTH, NORTH, NORTH

Statement: Given that in state 391 the agent chose NORTH in what state would it chose SOUTH?   
In state 91:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 2

Passenger destination: 3

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 2

Passenger destination: 3

State Path: 391, 391, 291

Loss function value: 0.95

Action path: NORTH

Statement: Given that in state 391 the agent chose NORTH in what state would it chose WEST?   
In state 291:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 3

Passenger destination: 0

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 3

Passenger destination: 0

State Path: 392, 392, 292

Loss function value: 0.95

Action path: NORTH

Statement: Given that in state 392 the agent chose WEST in what state would it chose SOUTH?   
In state 292:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 3

Passenger destination: 0

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 4

Passenger destination: 0

State Path: 392, 392, 372, 472, 476

Loss function value: 0.85

Action path: WEST, SOUTH, PICKUP

Statement: Given that in state 392 the agent chose WEST in what state would it chose NORTH?   
In state 476 where the passanger location is now In Taxi:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 3

Passenger destination: 1

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 4

Passenger destination: 1

State Path: 393, 393, 493, 473, 477, 497

Loss function value: 0.8

Action path: SOUTH, WEST, PICKUP, EAST

Statement: Given that in state 393 the agent chose SOUTH in what state would it chose NORTH?   
In state 497 where the passanger location is now In Taxi:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 3

Passenger destination: 1

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 3

Passenger destination: 1

State Path: 393, 393, 293

Loss function value: 0.95

Action path: NORTH

Statement: Given that in state 393 the agent chose SOUTH in what state would it chose WEST?   
In state 293:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 3

Passenger destination: 2

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 4

Passenger destination: 2

State Path: 394, 394, 374, 474, 478

Loss function value: 0.85

Action path: WEST, SOUTH, PICKUP

Statement: Given that in state 394 the agent chose SOUTH in what state would it chose NORTH?   
In state 478 where the passanger location is now In Taxi:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 3

Passenger destination: 2

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 3

Passenger destination: 2

State Path: 394, 394, 294

Loss function value: 0.95

Action path: NORTH

Statement: Given that in state 394 the agent chose SOUTH in what state would it chose WEST?   
In state 294:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 4

Passenger destination: 0

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 4

Passenger destination: 0

State Path: 396, 396, 296, 276, 176, 156

Loss function value: 0.8

Action path: NORTH, WEST, NORTH, WEST

Statement: Given that in state 396 the agent chose WEST in what state would it chose SOUTH?   
In state 156:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 4

Passenger destination: 0

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 4

Passenger destination: 0

State Path: 396, 396, 376

Loss function value: 0.95

Action path: WEST

Statement: Given that in state 396 the agent chose WEST in what state would it chose NORTH?   
In state 376:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 4

Passenger destination: 1

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 4

Passenger destination: 1

State Path: 397, 397, 377, 277, 257, 157, 57

Loss function value: 0.75

Action path: WEST, NORTH, WEST, NORTH, NORTH

Statement: Given that in state 397 the agent chose NORTH in what state would it chose SOUTH?   
In state 57:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 4

Passenger destination: 1

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

No counterfactual found for target WEST

Factual explanation:

Passenger location: 4

Passenger destination: 1

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

No counterfactual found for target WEST

Factual explanation:

Passenger location: 4

Passenger destination: 2

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 4

Passenger destination: 2

State Path: 398, 398, 298, 278, 178, 158

Loss function value: 0.8

Action path: NORTH, WEST, NORTH, WEST

Statement: Given that in state 398 the agent chose NORTH in what state would it chose SOUTH?   
In state 158:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 4

Passenger destination: 2

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 4

Passenger destination: 2

State Path: 398, 398, 298

Loss function value: 0.95

Action path: NORTH

Statement: Given that in state 398 the agent chose NORTH in what state would it chose WEST?   
In state 298:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 4

Passenger destination: 3

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 4

Passenger destination: 3

State Path: 399, 399, 379, 279, 259, 359

Loss function value: 0.8

Action path: WEST, NORTH, WEST, SOUTH

Statement: Given that in state 399 the agent chose SOUTH in what state would it chose NORTH?   
In state 359:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 4

Passenger destination: 3

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 4

Passenger destination: 3

State Path: 399, 399, 499

Loss function value: 0.95

Action path: SOUTH

Statement: Given that in state 399 the agent chose SOUTH in what state would it chose WEST?   
In state 499:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 2

Passenger destination: 0

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 4

Passenger destination: 0

State Path: 408, 408, 416

Loss function value: 0.95

Action path: PICKUP

Statement: Given that in state 408 the agent chose PICKUP in what state would it chose NORTH?   
In state 416 where the passanger location is now In Taxi:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 2

Passenger destination: 1

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 4

Passenger destination: 1

State Path: 409, 409, 417

Loss function value: 0.95

Action path: PICKUP

Statement: Given that in state 409 the agent chose PICKUP in what state would it chose NORTH?   
In state 417 where the passanger location is now In Taxi:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 2

Passenger destination: 2

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

No counterfactual found for target NORTH

Factual explanation:

Passenger location: 2

Passenger destination: 2

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

No counterfactual found for target NORTH

Factual explanation:

Passenger location: 2

Passenger destination: 2

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

No counterfactual found for target PICKUP

Factual explanation:

Passenger location: 2

Passenger destination: 2

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

No counterfactual found for target PICKUP

Factual explanation:

Passenger location: 2

Passenger destination: 3

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 4

Passenger destination: 3

State Path: 411, 411, 419

Loss function value: 0.95

Action path: PICKUP

Statement: Given that in state 411 the agent chose PICKUP in what state would it chose NORTH?   
In state 419 where the passanger location is now In Taxi:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 4

Passenger destination: 2

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 4

Passenger destination: 2

State Path: 418, 418, 318, 218, 238, 338

Loss function value: 0.8

Action path: NORTH, NORTH, EAST, SOUTH

Statement: Given that in state 418 the agent chose DROPOFF in what state would it chose NORTH?   
In state 338:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 0

Passenger destination: 1

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 4

Passenger destination: 1

State Path: 421, 421, 321, 221, 121, 21, 1, 17

Loss function value: 0.7

Action path: NORTH, NORTH, NORTH, NORTH, WEST, PICKUP

Statement: Given that in state 421 the agent chose NORTH in what state would it chose EAST?   
In state 17 where the passanger location is now In Taxi:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 0

Passenger destination: 2

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

No counterfactual found for target EAST

Factual explanation:

Passenger location: 0

Passenger destination: 2

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

No counterfactual found for target EAST

Factual explanation:

Passenger location: 0

Passenger destination: 3

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 4

Passenger destination: 3

State Path: 423, 423, 323, 223, 203, 103, 3, 19

Loss function value: 0.7

Action path: NORTH, NORTH, WEST, NORTH, NORTH, PICKUP

Statement: Given that in state 423 the agent chose NORTH in what state would it chose EAST?   
In state 19 where the passanger location is now In Taxi:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 1

Passenger destination: 0

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 1

Passenger destination: 0

State Path: 424, 424, 444

Loss function value: 0.95

Action path: EAST

Statement: Given that in state 424 the agent chose EAST in what state would it chose NORTH?   
In state 444:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 1

Passenger destination: 2

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 1

Passenger destination: 2

State Path: 426, 426, 446

Loss function value: 0.95

Action path: EAST

Statement: Given that in state 426 the agent chose EAST in what state would it chose NORTH?   
In state 446:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 1

Passenger destination: 3

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 1

Passenger destination: 3

State Path: 427, 427, 327

Loss function value: 0.95

Action path: NORTH

Statement: Given that in state 427 the agent chose NORTH in what state would it chose EAST?   
In state 327:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 2

Passenger destination: 0

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

No counterfactual found for target EAST

Factual explanation:

Passenger location: 2

Passenger destination: 0

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

No counterfactual found for target EAST

Factual explanation:

Passenger location: 2

Passenger destination: 1

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 4

Passenger destination: 1

State Path: 429, 429, 329, 229, 209, 309, 409, 417, 317, 217

Loss function value: 0.6

Action path: NORTH, NORTH, WEST, SOUTH, SOUTH, PICKUP, NORTH, NORTH

Statement: Given that in state 429 the agent chose NORTH in what state would it chose EAST?   
In state 217 where the passanger location is now In Taxi:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 2

Passenger destination: 3

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 4

Passenger destination: 3

State Path: 431, 431, 331, 231, 211, 311, 411, 419, 319, 219

Loss function value: 0.6

Action path: NORTH, NORTH, WEST, SOUTH, SOUTH, PICKUP, NORTH, NORTH

Statement: Given that in state 431 the agent chose NORTH in what state would it chose EAST?   
In state 219 where the passanger location is now In Taxi:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 3

Passenger destination: 0

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 3

Passenger destination: 0

State Path: 432, 432, 332

Loss function value: 0.95

Action path: NORTH

Statement: Given that in state 432 the agent chose EAST in what state would it chose NORTH?   
In state 332:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 3

Passenger destination: 1

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 3

Passenger destination: 1

State Path: 433, 433, 333, 233

Loss function value: 0.9

Action path: NORTH, NORTH

Statement: Given that in state 433 the agent chose NORTH in what state would it chose EAST?   
In state 233:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 3

Passenger destination: 2

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 3

Passenger destination: 2

State Path: 434, 434, 454

Loss function value: 0.95

Action path: EAST

Statement: Given that in state 434 the agent chose EAST in what state would it chose NORTH?   
In state 454:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 4

Passenger destination: 0

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

No counterfactual found for target EAST

Factual explanation:

Passenger location: 4

Passenger destination: 0

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

No counterfactual found for target EAST

Factual explanation:

Passenger location: 4

Passenger destination: 1

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 4

Passenger destination: 1

State Path: 437, 437, 337, 237

Loss function value: 0.9

Action path: NORTH, NORTH

Statement: Given that in state 437 the agent chose NORTH in what state would it chose EAST?   
In state 237:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 4

Passenger destination: 2

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

No counterfactual found for target EAST

Factual explanation:

Passenger location: 4

Passenger destination: 2

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

No counterfactual found for target EAST

Factual explanation:

Passenger location: 4

Passenger destination: 3

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 4

Passenger destination: 3

State Path: 439, 439, 339

Loss function value: 0.95

Action path: NORTH

Statement: Given that in state 439 the agent chose EAST in what state would it chose NORTH?   
In state 339:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 0

Passenger destination: 1

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 0

Passenger destination: 1

State Path: 441, 441, 341

Loss function value: 0.95

Action path: NORTH

Statement: Given that in state 441 the agent chose WEST in what state would it chose NORTH?   
In state 341:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 0

Passenger destination: 2

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 0

Passenger destination: 2

State Path: 442, 442, 342

Loss function value: 0.95

Action path: NORTH

Statement: Given that in state 442 the agent chose NORTH in what state would it chose WEST?   
In state 342:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 0

Passenger destination: 3

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 0

Passenger destination: 3

State Path: 443, 443, 343

Loss function value: 0.95

Action path: NORTH

Statement: Given that in state 443 the agent chose NORTH in what state would it chose WEST?   
In state 343:

+---------+

|R: | : :G|

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| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 1

Passenger destination: 0

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

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Counterfactual explanation:

Passenger location: 4

Passenger destination: 0

State Path: 444, 444, 344, 244, 264, 164, 184, 84, 96

Loss function value: 0.65

Action path: NORTH, NORTH, EAST, NORTH, EAST, NORTH, PICKUP

Statement: Given that in state 444 the agent chose NORTH in what state would it chose WEST?   
In state 96 where the passanger location is now In Taxi:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 1

Passenger destination: 2

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

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Counterfactual explanation:

Passenger location: 4

Passenger destination: 2

State Path: 446, 446, 346, 246, 146, 46, 66, 86, 98

Loss function value: 0.65

Action path: NORTH, NORTH, NORTH, NORTH, EAST, EAST, PICKUP

Statement: Given that in state 446 the agent chose NORTH in what state would it chose WEST?   
In state 98 where the passanger location is now In Taxi:

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|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

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Factual explanation:

Passenger location: 1

Passenger destination: 3

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

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Counterfactual explanation:

Passenger location: 4

Passenger destination: 3

State Path: 447, 447, 347, 247, 147, 167, 187, 87, 99

Loss function value: 0.65

Action path: NORTH, NORTH, NORTH, EAST, EAST, NORTH, PICKUP

Statement: Given that in state 447 the agent chose NORTH in what state would it chose WEST?   
In state 99 where the passanger location is now In Taxi:

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|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

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Factual explanation:

Passenger location: 2

Passenger destination: 0

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 2

Passenger destination: 0

State Path: 448, 448, 428

Loss function value: 0.95

Action path: WEST

Statement: Given that in state 448 the agent chose WEST in what state would it chose NORTH?   
In state 428:

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|R: | : :G|

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| : : : : |

| | : | : |

|Y| : |B: |

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Factual explanation:

Passenger location: 2

Passenger destination: 1

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 2

Passenger destination: 1

State Path: 449, 449, 429

Loss function value: 0.95

Action path: WEST

Statement: Given that in state 449 the agent chose WEST in what state would it chose NORTH?   
In state 429:

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|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

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Factual explanation:

Passenger location: 2

Passenger destination: 3

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 2

Passenger destination: 3

State Path: 451, 451, 351

Loss function value: 0.95

Action path: NORTH

Statement: Given that in state 451 the agent chose NORTH in what state would it chose WEST?   
In state 351:

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|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

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Factual explanation:

Passenger location: 3

Passenger destination: 0

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 3

Passenger destination: 0

State Path: 452, 452, 352, 252, 272, 292, 192

Loss function value: 0.75

Action path: NORTH, NORTH, EAST, EAST, NORTH

Statement: Given that in state 452 the agent chose NORTH in what state would it chose WEST?   
In state 192:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 3

Passenger destination: 1

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 3

Passenger destination: 1

State Path: 453, 453, 353, 253, 273, 293

Loss function value: 0.8

Action path: NORTH, NORTH, EAST, EAST

Statement: Given that in state 453 the agent chose NORTH in what state would it chose WEST?   
In state 293:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 3

Passenger destination: 2

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 3

Passenger destination: 2

State Path: 454, 454, 354, 254, 274, 294

Loss function value: 0.8

Action path: NORTH, NORTH, EAST, EAST

Statement: Given that in state 454 the agent chose NORTH in what state would it chose WEST?   
In state 294:

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|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

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Factual explanation:

Passenger location: 4

Passenger destination: 0

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 4

Passenger destination: 0

State Path: 456, 456, 356

Loss function value: 0.95

Action path: NORTH

Statement: Given that in state 456 the agent chose NORTH in what state would it chose WEST?   
In state 356:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

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Factual explanation:

Passenger location: 4

Passenger destination: 1

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

No counterfactual found for target WEST

Factual explanation:

Passenger location: 4

Passenger destination: 1

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

No counterfactual found for target WEST

Factual explanation:

Passenger location: 4

Passenger destination: 2

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 4

Passenger destination: 2

State Path: 458, 458, 358, 258

Loss function value: 0.9

Action path: NORTH, NORTH

Statement: Given that in state 458 the agent chose NORTH in what state would it chose WEST?   
In state 258:

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|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 4

Passenger destination: 3

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 4

Passenger destination: 3

State Path: 459, 459, 359, 259, 279, 299, 199

Loss function value: 0.75

Action path: NORTH, NORTH, EAST, EAST, NORTH

Statement: Given that in state 459 the agent chose NORTH in what state would it chose WEST?   
In state 199:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 0

Passenger destination: 1

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 4

Passenger destination: 1

State Path: 461, 461, 361, 261, 241, 221, 121, 101, 1, 17

Loss function value: 0.6

Action path: NORTH, NORTH, WEST, WEST, NORTH, WEST, NORTH, PICKUP

Statement: Given that in state 461 the agent chose NORTH in what state would it chose EAST?   
In state 17 where the passanger location is now In Taxi:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 0

Passenger destination: 2

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

No counterfactual found for target EAST

Factual explanation:

Passenger location: 0

Passenger destination: 2

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

No counterfactual found for target EAST

Factual explanation:

Passenger location: 0

Passenger destination: 3

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 4

Passenger destination: 3

State Path: 463, 463, 363, 263, 243, 223, 123, 103, 3, 19

Loss function value: 0.6

Action path: NORTH, NORTH, WEST, WEST, NORTH, WEST, NORTH, PICKUP

Statement: Given that in state 463 the agent chose NORTH in what state would it chose EAST?   
In state 19 where the passanger location is now In Taxi:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 1

Passenger destination: 0

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 1

Passenger destination: 0

State Path: 464, 464, 364

Loss function value: 0.95

Action path: NORTH

Statement: Given that in state 464 the agent chose NORTH in what state would it chose EAST?   
In state 364:

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|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 1

Passenger destination: 2

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 1

Passenger destination: 2

State Path: 466, 466, 366, 266

Loss function value: 0.9

Action path: NORTH, NORTH

Statement: Given that in state 466 the agent chose NORTH in what state would it chose EAST?   
In state 266:

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|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 1

Passenger destination: 3

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 1

Passenger destination: 3

State Path: 467, 467, 367, 267

Loss function value: 0.9

Action path: NORTH, NORTH

Statement: Given that in state 467 the agent chose NORTH in what state would it chose EAST?   
In state 267:

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|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 2

Passenger destination: 0

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

No counterfactual found for target EAST

Factual explanation:

Passenger location: 2

Passenger destination: 0

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

No counterfactual found for target EAST

Factual explanation:

Passenger location: 2

Passenger destination: 1

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

No counterfactual found for target EAST

Factual explanation:

Passenger location: 2

Passenger destination: 1

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

No counterfactual found for target EAST

Factual explanation:

Passenger location: 2

Passenger destination: 3

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

No counterfactual found for target EAST

Factual explanation:

Passenger location: 2

Passenger destination: 3

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

No counterfactual found for target EAST

Factual explanation:

Passenger location: 3

Passenger destination: 0

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 4

Passenger destination: 0

State Path: 472, 472, 476

Loss function value: 0.95

Action path: PICKUP

Statement: Given that in state 472 the agent chose PICKUP in what state would it chose NORTH?   
In state 476 where the passanger location is now In Taxi:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 3

Passenger destination: 0

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 3

Passenger destination: 0

State Path: 472, 472, 372, 272, 252

Loss function value: 0.85

Action path: NORTH, NORTH, WEST

Statement: Given that in state 472 the agent chose PICKUP in what state would it chose EAST?   
In state 252:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 3

Passenger destination: 1

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 4

Passenger destination: 1

State Path: 473, 473, 477, 497

Loss function value: 0.9

Action path: PICKUP, EAST

Statement: Given that in state 473 the agent chose PICKUP in what state would it chose NORTH?   
In state 497 where the passanger location is now In Taxi:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 3

Passenger destination: 1

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 4

Passenger destination: 1

State Path: 473, 473, 477

Loss function value: 0.95

Action path: PICKUP

Statement: Given that in state 473 the agent chose PICKUP in what state would it chose EAST?   
In state 477 where the passanger location is now In Taxi:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 3

Passenger destination: 2

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 4

Passenger destination: 2

State Path: 474, 474, 478

Loss function value: 0.95

Action path: PICKUP

Statement: Given that in state 474 the agent chose PICKUP in what state would it chose NORTH?   
In state 478 where the passanger location is now In Taxi:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 3

Passenger destination: 2

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 3

Passenger destination: 2

State Path: 474, 474, 374, 274, 254

Loss function value: 0.85

Action path: NORTH, NORTH, WEST

Statement: Given that in state 474 the agent chose PICKUP in what state would it chose EAST?   
In state 254:

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|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 3

Passenger destination: 3

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

No counterfactual found for target NORTH

Factual explanation:

Passenger location: 3

Passenger destination: 3

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

No counterfactual found for target NORTH

Factual explanation:

Passenger location: 3

Passenger destination: 3

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

No counterfactual found for target EAST

Factual explanation:

Passenger location: 3

Passenger destination: 3

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

No counterfactual found for target EAST

Factual explanation:

Passenger location: 3

Passenger destination: 3

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

No counterfactual found for target PICKUP

Factual explanation:

Passenger location: 3

Passenger destination: 3

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

No counterfactual found for target PICKUP

Factual explanation:

Passenger location: 4

Passenger destination: 0

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

No counterfactual found for target EAST

Factual explanation:

Passenger location: 4

Passenger destination: 0

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

No counterfactual found for target EAST

Factual explanation:

Passenger location: 4

Passenger destination: 1

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 4

Passenger destination: 1

State Path: 477, 477, 497

Loss function value: 0.95

Action path: EAST

Statement: Given that in state 477 the agent chose EAST in what state would it chose NORTH?   
In state 497:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 4

Passenger destination: 2

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

No counterfactual found for target EAST

Factual explanation:

Passenger location: 4

Passenger destination: 2

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

No counterfactual found for target EAST

Factual explanation:

Passenger location: 4

Passenger destination: 3

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 4

Passenger destination: 3

State Path: 479, 479, 379, 279, 259, 359

Loss function value: 0.8

Action path: NORTH, NORTH, WEST, SOUTH

Statement: Given that in state 479 the agent chose DROPOFF in what state would it chose NORTH?   
In state 359:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 4

Passenger destination: 3

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 4

Passenger destination: 3

State Path: 479, 479, 379, 279, 259

Loss function value: 0.85

Action path: NORTH, NORTH, WEST

Statement: Given that in state 479 the agent chose DROPOFF in what state would it chose EAST?   
In state 259:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 0

Passenger destination: 1

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 0

Passenger destination: 1

State Path: 481, 481, 381

Loss function value: 0.95

Action path: NORTH

Statement: Given that in state 481 the agent chose NORTH in what state would it chose WEST?   
In state 381:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 0

Passenger destination: 2

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 0

Passenger destination: 2

State Path: 482, 482, 382

Loss function value: 0.95

Action path: NORTH

Statement: Given that in state 482 the agent chose NORTH in what state would it chose WEST?   
In state 382:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 0

Passenger destination: 3

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 0

Passenger destination: 3

State Path: 483, 483, 463

Loss function value: 0.95

Action path: WEST

Statement: Given that in state 483 the agent chose WEST in what state would it chose NORTH?   
In state 463:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 1

Passenger destination: 0

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|R: | : :G|

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|Y| : |B: |

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Counterfactual explanation:

Passenger location: 4

Passenger destination: 0

State Path: 484, 484, 384, 284, 184, 84, 96

Loss function value: 0.75

Action path: NORTH, NORTH, NORTH, NORTH, PICKUP

Statement: Given that in state 484 the agent chose NORTH in what state would it chose WEST?   
In state 96 where the passanger location is now In Taxi:

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|Y| : |B: |

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Factual explanation:

Passenger location: 1

Passenger destination: 2

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|R: | : :G|

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|Y| : |B: |

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Counterfactual explanation:

Passenger location: 4

Passenger destination: 2

State Path: 486, 486, 386, 286, 186, 86, 98

Loss function value: 0.75

Action path: NORTH, NORTH, NORTH, NORTH, PICKUP

Statement: Given that in state 486 the agent chose NORTH in what state would it chose WEST?   
In state 98 where the passanger location is now In Taxi:

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|Y| : |B: |

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Factual explanation:

Passenger location: 1

Passenger destination: 3

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|R: | : :G|

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|Y| : |B: |

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Counterfactual explanation:

Passenger location: 4

Passenger destination: 3

State Path: 487, 487, 387, 287, 187, 87, 99

Loss function value: 0.75

Action path: NORTH, NORTH, NORTH, NORTH, PICKUP

Statement: Given that in state 487 the agent chose NORTH in what state would it chose WEST?   
In state 99 where the passanger location is now In Taxi:

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|Y| : |B: |

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Factual explanation:

Passenger location: 2

Passenger destination: 0

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|R: | : :G|

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|Y| : |B: |

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Counterfactual explanation:

Passenger location: 2

Passenger destination: 0

State Path: 488, 488, 468

Loss function value: 0.95

Action path: WEST

Statement: Given that in state 488 the agent chose WEST in what state would it chose NORTH?   
In state 468:

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|Y| : |B: |

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Factual explanation:

Passenger location: 2

Passenger destination: 1

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|R: | : :G|

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|Y| : |B: |

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Counterfactual explanation:

Passenger location: 2

Passenger destination: 1

State Path: 489, 489, 469

Loss function value: 0.95

Action path: WEST

Statement: Given that in state 489 the agent chose WEST in what state would it chose NORTH?   
In state 469:

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|Y| : |B: |

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Factual explanation:

Passenger location: 2

Passenger destination: 3

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|R: | : :G|

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|Y| : |B: |

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Counterfactual explanation:

Passenger location: 2

Passenger destination: 3

State Path: 491, 491, 391, 291

Loss function value: 0.9

Action path: NORTH, NORTH

Statement: Given that in state 491 the agent chose NORTH in what state would it chose WEST?   
In state 291:

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|Y| : |B: |

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Factual explanation:

Passenger location: 3

Passenger destination: 0

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|R: | : :G|

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|Y| : |B: |

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Counterfactual explanation:

Passenger location: 4

Passenger destination: 0

State Path: 492, 492, 472, 476

Loss function value: 0.9

Action path: WEST, PICKUP

Statement: Given that in state 492 the agent chose WEST in what state would it chose NORTH?   
In state 476 where the passanger location is now In Taxi:

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Factual explanation:

Passenger location: 3

Passenger destination: 1

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|R: | : :G|

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|Y| : |B: |

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Counterfactual explanation:

Passenger location: 4

Passenger destination: 1

State Path: 493, 493, 473, 477, 497

Loss function value: 0.85

Action path: WEST, PICKUP, EAST

Statement: Given that in state 493 the agent chose WEST in what state would it chose NORTH?   
In state 497 where the passanger location is now In Taxi:

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Factual explanation:

Passenger location: 3

Passenger destination: 2

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|R: | : :G|

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|Y| : |B: |

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Counterfactual explanation:

Passenger location: 4

Passenger destination: 2

State Path: 494, 494, 474, 478

Loss function value: 0.9

Action path: WEST, PICKUP

Statement: Given that in state 494 the agent chose WEST in what state would it chose NORTH?   
In state 478 where the passanger location is now In Taxi:

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|R: | : :G|

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|Y| : |B: |

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Factual explanation:

Passenger location: 4

Passenger destination: 0

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|R: | : :G|

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|Y| : |B: |

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Counterfactual explanation:

Passenger location: 4

Passenger destination: 0

State Path: 496, 496, 396

Loss function value: 0.95

Action path: NORTH

Statement: Given that in state 496 the agent chose NORTH in what state would it chose WEST?   
In state 396:

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|Y| : |B: |

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Factual explanation:

Passenger location: 4

Passenger destination: 1

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|R: | : :G|

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|Y| : |B: |

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No counterfactual found for target WEST

Factual explanation:

Passenger location: 4

Passenger destination: 1

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|R: | : :G|

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|Y| : |B: |

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No counterfactual found for target WEST

Factual explanation:

Passenger location: 4

Passenger destination: 2

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|R: | : :G|

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|Y| : |B: |

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Counterfactual explanation:

Passenger location: 4

Passenger destination: 2

State Path: 498, 498, 398

Loss function value: 0.95

Action path: NORTH

Statement: Given that in state 498 the agent chose WEST in what state would it chose NORTH?   
In state 398:

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|R: | : :G|

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|Y| : |B: |

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Factual explanation:

Passenger location: 4

Passenger destination: 3

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|R: | : :G|

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|Y| : |B: |

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Counterfactual explanation:

Passenger location: 4

Passenger destination: 3

State Path: 499, 499, 399, 299, 279, 259, 359

Loss function value: 0.75

Action path: NORTH, NORTH, WEST, WEST, SOUTH

Statement: Given that in state 499 the agent chose WEST in what state would it chose NORTH?   
In state 359:

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|Y| : |B: |

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CF Accuracy: 0.8707865168539326in mode ACTION